



DELHI TEST HOUSE®

ISO-9001 CERTIFIED LABORATORY

Plot No. 50, Phase-IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital,

Kundli, Sonipat - 131028 (Haryana)

Telefax : 0130-2116529 Mobile : 09811166015, 09810068016

E-mail : info@delhitesthouse.com, ag@delhitesthouse.com

Website : www.delhitesthouse.com

SUMMARY OF TEST REPORT NO. 219784200626KUNIT001 DATED 17/07/2020

(Number of pages in test report: page no. 1 to 113)

**TEST FORMAT AS PER IS 13252 (PART 1): 2010 + A1:2013 +A2:2015/
IEC 60950-1: 2005 + A1: 2009 +A2:2013**

- Name of Manufacturer: Dee Van Electronics (Longchuan) Co. Ltd.,
MEICHUN INDUSTRIAL DISTRICT, LONGCHUAN COUNTRY,
HEYUAN, GUANGDONG 517300, P.R.CHINA
- Product: SWITCHING ADAPTER (Power Adapter for IT Equipment)
- Model : DSA-10PPF-05 050200
- Model differences provided (if applicable) : Yes / No
- Model differences verified as per MeitY Guidelines for series formulation : Yes / No
- Test Results . See below

PART A : GENERAL

| SL. NO. | TEST REQUIREMENT | CLAUSE | VERDICT |
|---------|---------------------------|--------|---------|
| 1. | Components | 1.5 | P |
| 2. | Power Interface | 1.6 | P |
| 3. | Markings and Instructions | 1.7 | P |

PART B : PROTECTION FROM HAZARDS

| SL. NO. | TEST REQUIREMENT | CLAUSE | VERDICT |
|---------|---|--------|---------|
| 1. | Protection from electric shock and energy hazards | 2.1 | P |
| 2. | SELV circuits | 2.2 | P |
| 3. | TNV circuits | 2.3 | N/A |
| 4. | Limited current circuits | 2.4 | N/A |
| 5. | Limited power sources | 2.5 | P |
| 6. | Provisions for earthing and bonding | 2.6 | N/A |
| 7. | Over current for earth fault protection in primary circuits | 2.7 | P |
| 8. | Safety interlocks | 2.8 | N/A |
| 9. | Electrical insulation | 2.9 | P |
| 10. | Clearances, creepage distances and distances through insulation | 2.10 | P |



TC-5375/52010000861F

(i)

DELHI TEST HOUSE

Plot No.50, Phase-IV, Sector-57

HSIDC, Industrial Area

Behind Parnami Hospital, Kundli

Sonipat -131028 (Haryana)

Tele-fax : 0130-2116529

Head Office : A-62/3, G.T. Karnal Road, Industrial Area, Opp. Hans Cinema, Azadpur, Delhi-110 033 (INDIA)

Ph. : +91-11-47075555 (30 Lines) Fax : +91-11-47075550 E-mail : info@delhitesthouse.com



DELHI TEST HOUSE®

ISO-9001 CERTIFIED LABORATORY

Plot No. 50, Phase-IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat - 131028 (Haryana)

Telefax : 0130-2116529 Mobile : 09811166015, 09810068016

E-mail : info@delhitesthouse.com, ag@delhitesthouse.com

Website : www.delhitesthouse.com

PART C: WIRING, CONNECTIONS AND PHYSICAL REQUIREMENTS

| SL. NO. | TEST REQUIREMENT | CLAUSE | VERDICT |
|---------|--|--------|---------|
| 1. | General | 3.1 | P |
| 2. | Connection to a mains supply | 3.2 | P |
| 3. | Wiring terminals for connection of external conductors | 3.3 | N/A |
| 4. | Disconnection from the mains supply | 3.4 | P |
| 5. | Interconnection of equipment | 3.5 | P |
| 6. | Stability | 4.1 | P |
| 7. | Mechanical strength | 4.2 | P |
| 8. | Design and construction | 4.3 | P |
| 9. | Protection against hazardous moving parts | 4.4 | N/A |
| 10. | Thermal requirements | 4.5 | P |
| 11. | Openings in enclosures | 4.6 | N/A |
| 12. | Resistance to fire | 4.7 | P |

PART D: ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS

| SL. NO. | TEST REQUIREMENT | CLAUSE | VERDICT |
|---------|--|--------|---------|
| 1. | Touch current and protective conductor current | 5.1 | P |
| 2. | Electric strength | 5.2 | P |
| 3. | Abnormal operating and fault conditions | 5.3 | P |

PART E: CONNECTION TO TELECOM AND CABLED DISTRIBUTION SYSTEM

| SL. NO. | TEST REQUIREMENT | CLAUSE | VERDICT |
|---------|---|--------|---------|
| 1. | Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment | 6.1 | N/A |
| 2. | Protection of equipment users from over voltages on telecommunication networks | 6.2 | N/A |
| 3. | Protection of the telecommunication wiring system from overheating | 6.3 | N/A |
| 4. | Connection to cable distribution systems - General | 7.1 | N/A |
| 5. | Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment | 7.2 | N/A |
| 6. | Protection of equipment users from over voltages on the cable distribution system | 7.3 | N/A |
| 7. | Isolation between primary circuits and cable distribution systems | 7.4 | N/A |



ULP-TC-5375
ULP-TC-537520100000861F

(ii)

DELHI TEST HOUSE

Plot No.50, Phase - IV, Sector-57

HSIDC, Industrial Area

Behind Parnami Hospital, Kundli

Sonapat - 131028 (Haryana).

Tele-fax : 0130-2116529

Head Office : A-62/3, G.T. Karnal Road, Industrial Area, Opp. Hans Cinema, Azadpur, Delhi-110 033 (INDIA)

Ph. : +91-11-47075555 (30 Lines) Fax : +91-11-47075550 E-mail : info@delhitesthouse.com



DELHI TEST HOUSE®

ISO-9001 CERTIFIED LABORATORY

Plot No. 50, Phase-IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital,
Kundli, Sonapat - 131028 (Haryana)
Telefax : 0130-2116529 Mobile : 09811166015, 09810068016
E-mail : info@delhitesthouse.com, ag@delhitesthouse.com
Website : www.delhitesthouse.com

General Information:

1. The conformity certificates of critical components are verified to ensure complete testing of apparatus under test and details regarding harmonized IEC standards (where IEC standards are not available) are also provided in the list of critical component.

CONCLUSION:

- 1) Sample meets all relevant requirements of IS 13252 (Part 1): 2010 + A1:2013+A2:2015/
IEC 60950-1: 2005 + A1: 2009 +A2:2013
- 2) ~~Sample fails to meet the following test requirements:~~

I, hereby, undertake that the verdict stated in the test reports for all the tests matches with the test results. The sample meets all relevant requirements of IS 13252 (Part 1):2010 + A1:2013+A2:2015/
IEC 60950-1: 2005 + A1: 2009 +A2:2013 (~~does not meet the requirements stated above at 2)~~ of conclusion. If any deviation is found, suitable punitive action may be taken by BIS.

(Signature of Authorized person with Stamp)
DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonapat - 131028 (Haryana)
Tele-fax : 0130-2116529



(iii)

ULR – TC537520100000861F



DELHI TEST HOUSETM

Plot No. 50, Phase - IV, Sector-57, HSIIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com ag@delhitesthouse.com Website : www.delhitesthouse.com



Discipline: Electronics, Group: IT Equipment

ULR – TC537520100000861F

| | | |
|------------------|----------------------|------------------------|
| Test Report No.: | 219784200626KUNIT001 | Page 1 of 113 |
| | | Issue Date: 17/07/2020 |

| | | | |
|-------------------------------------|--|------------------|------------|
| Manufacturer: | Dee Van Electronics (Longchuan) Co. Ltd., MEICHUN INDUSTRIAL DISTRICT, LONGGECHUAN COUNTRY, HEYUAN, GUANGDONG 517300, P.R.CHINA | | |
| Test item: | SWITCHING ADAPTER (Power Adapter for IT Equipment) | | |
| Identification: | DSA-10PPF-05 050200 | Serial No.: | 2021000015 |
| Receipt No.: | 5200626KUNIT001 | Date of receipt: | 26/06/2020 |
| Testing laboratory and its address: | Delhi Test House Plot No-50, Phase-IV, Sector-57, HSIIDC Kundli-131028, Haryana, India | | |
| Test specification: | IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / IEC 60950-1: 2005 + A1: 2009 + A2 : 2013 | | |
| Test Result: | The test item passed / failed-the test specification(s). | | |
| Other Aspects: | SWITCHING ADAPTER (Power Adapter for IT Equipment) model DSA-10PPF-05 050200 has been tested as per IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / IEC 60950-1:2005 + A1:2009 + A2: 2013 complies to all the applicable parameters. | | |
| | This test report relates to the test sample submitted and list of documents attached. | | |

| Tested by: | Approved by / Authorized Signatory: | Issued by: |
|---|--|--|
|  Jayveer Tyagi (Test Engineer) |  Manju Dahiya (Technical Manager) |  Pooja (Customer Executive) |
| (Name / Designation) | (Name / Designation) | (Name / Designation) |
| Date: 17/07/2020 | Date: 17/07/2020 | Date: 17/07/2020 |

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonapat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector 57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
 Telefax : 0130-2116529
 e-mail: kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

| TEST REPORT | |
|---|--|
| IS 13252 (Part 1): 2010 + A1: 2013+ A2: 2015 / IEC 60950-1: 2005 + A1: 2009 + A2: 2013 Information technology equipment – Safety – Part 1: General requirements “Power Adapter for IT Equipment” | |
| Report Reference No. | 219784200626KUNIT001 |
| Date of issue | 17/07/2020 |
| Total number of pages | 113 |
| Testing Laboratory | Delhi Test House |
| Address | Plot No-50, Phase-IV, Sector-57, HSIIDC Kundli-131028, Haryana, India |
| Manufacturer's name | Dee Van Electronics (Longchuan) Co. Ltd., |
| Address | MEICHUN INDUSTRIAL DISTRIC, LONGECHUAN COUNTRY, HEYUAN, GUANGDONG 517300, P.R.CHINA |
| Test specification: | |
| Standard | IS 13252 (Part 1): 2010 + A1: 2013+ A2:2015 / IEC 60950-1: 2005 + A1: 2009 +A2:2013 |
| Test procedure | Compliance Report |
| Non-standard test method | N/A |
| Test Report Form No. | BIS_IT/PA_IS13252_V1.3 |
| Test Report Form(s) Originator | Bureau of Indian Standards |
| Master TRF | 03/06/2016 |
| Test item description | SWITCHING ADAPTER (Power Adapter for IT Equipment) |
| Trade Mark | DVE |
| Model/Type reference | DSA-10PPF-05 050200 |
| Ratings | INPUT: 100-240V~ 50/60Hz 0.3A OUTPUT: +5.0V = 2.0A, 10.0W |
| Other Documents submitted | Please refer to Table – List of Attachments at Page 8 |

| Tested by: | Approved by / Authorized Signatory: | Issued by: |
|--|--|---|
|  Jayveer Tyagi (Test Engineer) |  Manju Dahiya (Technical Manager) |  Pooja (Customer Executive) |
| (Name / Designation) | (Name / Designation) | (Name / Designation) |
| Date: 17/07/2020 | Date: 17/07/2020 | Date: 17/07/2020 |

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
 Plot No.50, Phase - IV, Sector-57
 HSIDC, Industrial Area
 Behind Parnami Hospital, Kundli
 Sonapat-131028 (Haryana)
 Tele-fax : 0130-2116529



DELHI TEST HOUSE

Plot No. 50, Phase - IV, Sector 57, HSIDC Industrial Area, Behind Patnam Hospital, Kundli, Sonapat-131028, Haryana
 Tel: 0130 2116529
 e-mail: kundli@delhitesthouse.com ag@delhitesthouse.com Website: www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 3 of 113

Dated: 17/07/2020

IEC 60950-1: 2005 + A1:2009 + A2 : 2013

| Test Code | Description | Measurement/ testing | Total No. of tests | Total no. of applicable tests/ Req. | No. of tests/ Req. passed | Page No. |
|-----------|----------------------|---|--------------------|-------------------------------------|---------------------------|----------|
| EL 2100 | General Requirements | Components (Cl.1.5) | 18 | 04/04 | 04/04 | 11-12 |
| EL 2101 | General Requirements | Power interface (Cl.1.6) | 05 | 01/03 | 01/03 | 13 |
| EL 2102 | Marking Requirements | Marking & instructions(Cl.1.7) | 39 | 02/15 | 02/15 | 14-16 |
| EL 2103 | Electrical safety | Protection from electric shock and energy hazards (Cl.2.1) | 14 | 03/02 | 03/02 | 17-18 |
| EL 2104 | Electrical safety | SELV Circuits (Cl.2.2) | 04 | 02/02 | 02/02 | 19 |
| EL 2105 | Electrical safety | TNV Circuits (Cl.2.3) | 11 | 00/00 | 00/00 | 20 |
| EL 2106 | Electrical safety | Limited current circuits (Cl.2.4) | 04 | 00/00 | 00/00 | 21 |
| EL 2107 | Electrical safety | Limited Power sources (Cl.2.5) | 07 | 02/01 | 02/01 | 22 |
| EL 2108 | Electrical safety | Provisions for earthing and bonding (Cl.2.6) | 19 | 00/00 | 00/00 | 23-24 |
| EL 2109 | Electrical safety | Overcurrent and earth fault protection in primary circuits (Cl.2.7) | 07 | 03/01 | 03/01 | 25 |
| EL 2110 | Electrical safety | Safety Interlocks (Cl.2.8) | 13 | 00/00 | 00/00 | 26 |
| EL 2111 | Electrical safety | Electrical Insulation (Cl.2.9) | 05 | 01/04 | 01/04 | 27 |
| EL 2112 | Electrical safety | Clearances, Creepage distances and distances through insulation (Cl.2.10) | 63 | 20/05 | 20/05 | 28-31 |
| EL 2113 | Wiring | Wiring, connections and supply (Cl.3) | 11 | 03/03 | 03/03 | 32 |
| EL 2114 | Wiring | Connection to a main supply (Cl.3.2) | 14 | 00/02 | 00/02 | 33-34 |
| EL 2115 | Wiring | Wiring terminals for connection of external conductors (Cl.3.3) | 09 | 00/00 | 00/00 | 35 |
| EL 2116 | Wiring | Disconnection for the main supply (Cl.3.4) | 12 | 01/05 | 01/05 | 36 |
| EL 2117 | Wiring | Interconnection of | 05 | 00/03 | 00/03 | 37 |

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
 Plot No.50, Phase - IV, Sector-57
 HSIDC, Industrial Area
 Behind Patnam Hospital, Kundli
 Sonapat -131028 (Haryana)
 Tele-fax : 0130-2116529



DELHI TEST HOUSE

Plot No. 50, Phase - IV, Sector 57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028, Haryana
 Telefax : 0130 2116529
 e-mail: kundli@delhitesthouse.com ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 4 of 113

Dated: 17/07/2020

IEC 60950-1: 2005 + A1:2009 + A2 : 2013

| | | | | | | |
|---------|--|---|----|-------|-------|-------|
| | | equipment (Cl.3.5) | | | | |
| EL 2118 | Mechanical properties | Stability (Cl.4.1) | 05 | 01/01 | 01/01 | 38 |
| EL 2119 | Mechanical properties | Mechanical strength (Cl.4.2) | 13 | 06/00 | 06/00 | 39 |
| EL 2120 | Mechanical properties | Design and construction (Cl.4.3) | 25 | 04/03 | 04/03 | 40-41 |
| EL 2121 | Mechanical properties | Protection against hazardous moving parts (Cl.4.4) | 14 | 00/00 | 00/00 | 42 |
| EL 2122 | Thermal Properties | Thermal requirements (Cl.4.5) | 06 | 03/03 | 03/03 | 43 |
| EL 2123 | Mechanical properties | Openings in Enclosures (Cl.4.6) | 18 | 00/00 | 00/00 | 44-45 |
| EL 2124 | Fire Safety | Resistance to fire (Cl.4.7) | 25 | 05/05 | 05/05 | 46-50 |
| EL 2125 | Insulating properties | Electrical requirements and simulated abnormal conditions(Cl.5),5.1 | 20 | 06/04 | 06/04 | 51-52 |
| EL 2126 | Insulating properties | Electric Strength (Cl.5.2) | 03 | 01/02 | 01/02 | 53 |
| EL 2127 | Insulating properties | Abnormal operating and fault conditions (Cl.5.3) | 11 | 07/00 | 07/00 | 54 |
| EL 2128 | Communicating connection | Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment(Cl.6.1) | 04 | 00/00 | 00/00 | 55-56 |
| EL 2129 | Communicating connection | Protection of equipment users from overvoltages on telecommunication networks (Cl.6.2) | 06 | 00/00 | 00/00 | 57 |
| EL 2130 | Communicating connection | Protection of the telecommunication wiring system from overheating (Cl.6.3) | 05 | 00/00 | 00/00 | 58-59 |
| EL 2131 | Connection to cable distribution systems | Connection to cable distribution systems (Cl.7) | 06 | 00/00 | 00/00 | 60 |
| EL 2132 | Fire safety | Tests for resistance to | 20 | 02/00 | 02/00 | 61-62 |

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE

Plot No.50, Phase - IV, Sector-57
 HSIDC, Industrial Area
 Behind Parnami Hospital, Kundli
 Sonapat-131028, Haryana)
 Tele-fax : 0130 2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
 Telefax : 0130-2116529
 e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 5 of 113
 Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

| | | | | | | |
|---------|-----------------------|--|----|-------|-------|-------|
| | | heat and fire (Annex A) | | | | |
| EL 2133 | Insulating properties | Motor tests under abnormal conditions (Annex B) | 19 | 00/00 | 00/00 | 63-64 |
| EL 2134 | Electrical Safety | Transformers (Annex C) | 03 | 02/01 | 02/01 | 65 |
| EL 2135 | Insulating properties | Measuring Instruments For Touch-Current Tests (Annex D) | 03 | 02/00 | 02/00 | 66 |
| EL 2136 | Thermal Properties | Temperature Rise Of A Winding(Annex E) | 01 | 00/00 | 00/00 | 67 |
| EL 2137 | Electrical safety | Measurement Of Clearances And Creepage Distances(Annex F) | 01 | 01/00 | 01/00 | 68 |
| EL 2138 | Electrical safety | Alternative Method For Determining Minimum Clearances(Annex G) | 17 | 00/00 | 00/00 | 69-70 |
| EL 2139 | Radiation Safety | Ionizing Radiation(Annex H) | 01 | 00/00 | 00/00 | 71 |
| EL 2140 | Electrical Safety | Table of electrochemical potentials (Annex J) | 01 | 00/00 | 00/00 | 72 |
| EL 2141 | General Requirements | Thermal controls (Annex K) | 07 | 00/00 | 00/00 | 73 |
| EL 2142 | General Requirements | Normal load conditions for some types of electrical business equipment (Annex L) | 08 | 00/02 | 00/02 | 74 |
| EL 2143 | Electrical Safety | Criteria for telephone ringing signals (Annex M) | 13 | 00/00 | 00/00 | 75 |
| EL 2144 | Electrical safety | Impulse Test Generators(Annex N) | 03 | 00/00 | 00/00 | 76 |
| EL 2145 | General Requirements | Normative References(Annex P) | 01 | 00/01 | 00/01 | 77 |
| EL 2146 | General Requirements | Voltage dependent resistors (VDRs) (Annex Q) | 03 | 00/00 | 00/00 | 78 |
| EL 2147 | General Requirements | Examples Of Requirements For Quality Control Programmes(Annex R) | 03 | 00/00 | 00/00 | 79 |

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
 Plot No.50, Phase - IV, Sector-57
 HSIDC, Industrial Area
 Behind Parnami Hospital, Kundli
 Sonapat-131028 (Haryana)
 Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)

Telefax : 0130-2116529

e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 6 of 113

Dated: 17/07/2020

IEC 60950-1: 2005 + A1:2009 + A2 : 2013

| | | | | | | |
|---------|-------------------------------------|--|----|-------|-------|-------|
| EL 2148 | General Requirements | Procedure For Impulse Testing (Annex S) | 04 | 00/00 | 00/00 | 80 |
| EL 2149 | Protection against Ingress of water | Guidance On Protection Against Ingress Of Water (Annex T) | 01 | 00/00 | 00/00 | 81 |
| EL 2150 | Wiring | Insulated Winding Wires For Use Without Interleaved Insulation (Annex U) | 01 | 00/00 | 00/00 | 82-83 |
| EL 2151 | Electrical Safety | Ac Power Distribution Systems(Annex V) | 03 | 01/02 | 01/02 | 84 |
| EL 2152 | Electrical Safety | Summation Of Touch Currents (Annex W) | 08 | 00/00 | 00/00 | 85 |
| EL 2153 | Electrical Safety | Maximum Heating Effect In Transformer Tests(Annex X) | 03 | 00/03 | 00/03 | 86 |
| EL 2154 | Radiation safety | Ultraviolet light conditioning test (Annex Y) | 05 | 00/00 | 00/00 | 87 |
| EL 2155 | Electrical Safety | Overvoltage Categories (Annex Z) | 01 | 00/01 | 00/01 | 88 |
| EL 2156 | Mechanical properties | Mandrel Test (Annex AA) | 01 | 00/00 | 00/00 | 89 |
| EL 2158 | Electrical Safety | Evaluation Of Integrated Circuit (IC) Current Limiters (Annex CC) | 05 | 00/00 | 00/00 | 90 |
| EL 2159 | Mechanical properties | Requirements For The Mounting Means Of Rack-Mounted Equipment (Annex DD) | 04 | 00/00 | 00/00 | 91 |
| EL 2160 | Electrical Safety | Household And Home/Office Document/Media Shredders (Annex EE) | 06 | 00/00 | 00/00 | 92 |

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonipat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parmami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 7 of 113

Dated: 17/07/2020

IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Copy of marking plate:

Marking label on SWITCHING ADAPTER

Model: DSA-10PPF-05 050200

Switching Adapter 电源适配器
MODEL/型号: DSA-10PPF-05 050200
INPUT/输入: 100-240V ~ 50/60Hz 0.3A
OUTPUT/输出: +5.0V = 2.0A, 10.0W

EFFICIENCY LEVEL: V

I.T.E. L.P.S.
Power Supply

UL LISTED E135856

CE

CCC

SAFETY MARK
XXXXXXXX-XX

PN1V
PN4V
PN2.3*short

仅适用于海拔2000m及以下地区安全使用

Dee Van Electronics (Longchuan) Co.,Ltd.
帝翔企业股份有限公司 (G)

serial no. 2021000015

中国制造
Made in China

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parmami Hospital, Kundli
Sonapat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 8 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Table – List of Attachments

| Attachment No. | Attachment Description | No. of pages in Attachment |
|----------------|------------------------------------|----------------------------|
| Attachment I | PCB layout | 1 (Page 108) |
| Attachment II | Plug Dimension as per IS 1293:2019 | 1 (Page 109) |
| Attachment III | Photo Document | 4 (Page 110-113) |

General remarks:

The test results presented in this report relate only to the object tested.
This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

Possible test case verdicts:

- test case does not apply to the test object..... : N/A
- test object does meet the requirement..... : P (Pass)
- test object does not meet the requirement..... : F (Fail)

Testing.....

Date of receipt of test item..... : 26/06/2020
Date(s) of performance of tests..... : 26/06/2020 to 17/07/2020

Laboratory conditions.....

Ambient Temperature..... : 25 ± 10°C
Ambient Humidity..... : 60 ± 15%RH

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonapat-131028 (Haryana)
Tele Fax: 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector 57, HSIDC Industrial Area, Behind Patnam Hospital, Kundli, Sonapat-131028, Haryana
 Telefax : 0130-2116529
 e-mail: kundli@delhitesthouse.com, ag@delhitesthouse.com Website: www.delhitesthouse.com



ULR – TC53752010000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 9 of 113

Dated: 17/07/2020

IEC 60950-1: 2005 + A1:2009 + A2 : 2013

| | | | |
|--|--|---|--------------------------|
| Test item particulars | SWITCHING ADAPTER (Power Adapter for IT Equipment) | | |
| Equipment mobility | <input checked="" type="checkbox"/> movable | <input type="checkbox"/> hand-held <input checked="" type="checkbox"/> transportable | |
| | <input type="checkbox"/> stationary | <input type="checkbox"/> for building-in <input checked="" type="checkbox"/> direct plug-in | |
| Connection to the mains | <input checked="" type="checkbox"/> pluggable equipment [X] type A <input type="checkbox"/> type B | | |
| | <input type="checkbox"/> permanent connection | | |
| | <input type="checkbox"/> detachable power supply cord | | |
| | <input type="checkbox"/> non-detachable power supply cord | | |
| | <input type="checkbox"/> not directly connected to the mains | | |
| Operating condition | <input checked="" type="checkbox"/> continuous | | |
| | <input type="checkbox"/> rated operating / resting time: | | |
| Access location | <input checked="" type="checkbox"/> operator accessible | | |
| | <input type="checkbox"/> restricted access location | | |
| Over voltage category (OVC) | <input type="checkbox"/> OVC I | <input checked="" type="checkbox"/> OVC II <input type="checkbox"/> OVC III <input type="checkbox"/> OVC IV | |
| | <input type="checkbox"/> other: | | |
| Mains supply tolerance (%) or absolute mains supply values | -10%, +6% | | |
| Class of equipment | <input type="checkbox"/> Class I | <input checked="" type="checkbox"/> Class II <input type="checkbox"/> Class III | |
| | <input type="checkbox"/> Not classified | | |
| Considered current rating of the circuit (A) | 0.3A | | |
| Pollution degree (PD) | <input type="checkbox"/> PD 1 | <input checked="" type="checkbox"/> PD 2 <input type="checkbox"/> PD 3 | |
| IP protection class | IPX0 | | |
| Altitude during operation (m) | Up to 2000m | | |
| Altitude of test laboratory (m) | < 2000m | | |
| Mass of equipment (kg) | 0.054Kg | | |
| Abbreviations that may be used throughout this test report: | | | |
| PE/PB..... | protective earth/protective bonding | Pri..... | primary |
| CB..... | circuit breaker | sec..... | secondary |
| (SW)PS..... | (switching) power supply | gnd..... | ground |
| HV..... | high voltage | I/O..... | input/output |
| PCB..... | printed circuit (wiring) board | ii..... | installation instruction |
| TIW..... | triple insulated wire | PSU..... | Power Supply Unit |
| B/I..... | built-in application (compliance shall be guarantee in host equipment) | | |
| F/B/S/R : | Functional/Basic/Supplementary/Reinforced Insulation | | |

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
 Plot No.50, Phase - IV, Sector-57
 HSIDC, Industrial Area
 Behind Patnam Hospital, Kundli
 Sonapat-131028 (Haryana)
 Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50 Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail: kundli@delhitesthouse.com, ag@delhitesthouse.com Website: www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 10 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

General product information:

1) Application details / Description of the product:

SWITCHING ADAPTER (Power Adapter for IT Equipment), model DSA-10PFP-05 050200 having
INPUT:100-240V~ 50-60Hz 0.3A, OUTPUT: +5V.0--- 2.0A

SWITCHING ADAPTER (Power Adapter for IT Equipment) model DSA-10PFP-05 050200 has been tested
as per IS 13252 (Part 1): 2010 + A1: 2013 + A2: 2015 / IEC 60950-1:2005 + A1:2009 + A2: 2013 complies to
all the applicable parameters

Max. specified ambient temperature (°C).....: 50°C

2) Differences between the models: N/A

Model No. tested with-in the family series...: N/A

3) Options:

The equipment was tested without any optional accessory installed. Hence, this report does not cover
parameters that are influenced by the installation of optional accessory that might affect safety in the meaning of
this standard.

TRF No. BIS_IT/PA_IS13252_V1.3

JH

DELHI TEST HOUSE

Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonapat-131028 (Haryana)
Tel : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
 Telefax : 0130-2116529
 e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 11 of 113
 Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to General Requirements

EL 2100 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|---|------------|---|---------|
| 1.5 | Components* | EL 2100-00 | Verification of approvals with due correlation between the components used and the approval certificates submitted (See appended table 1.5.1) | P |
| 1.5.1 | General: | EL 2100-01 | See below | P |
| | Components shall be complying with IEC 60950-1 or relevant component standard. | | Critical components certified to IEC/National standards are used within their ratings and are checked for correct applications | P |
| | Components and subassemblies approved for IEC 62368-1 can be considered as complying with this standard | | Considered | P |
| 1.5.2 | Evaluation and testing of components | EL 2100-02 | Other components where no relevant IEC/National Component standard exists, the components tested under the conditions occurring in the equipment, using applicable parts of IS 13252(Part 1):2010 + A1:2013+ A2: 2015/IEC 60950-1: 2005 + A1:2009 + A2: 2013. (See appended table 1.5.1) | P |
| 1.5.3 | Thermal controls | EL 2100-03 | No thermal controls devices used | N/A |
| 1.5.4 | Transformers | EL 2100-04 | Transformer complied with the relevant requirements (See Annex C) | P |
| 1.5.5 | Interconnecting cables* | EL 2100-05 | Interconnecting cables are comply with relevant requirement of this standard | P |
| 1.5.6 | Capacitors bridging insulation * | EL 2100-06 | Safety certified Y-capacitors (CY1) used which are separately approved with IEC/EN 60384-14. Reinforced insulation is bridged by Y-capacitor (CY1) (See appended table 1.5.1) | P |
| 1.5.7 | Resistors bridging insulation | EL 2100-07 | See below | P |
| 1.5.7.1 | Resistors bridging functional, basic or supplementary insulation* | EL 2100-08 | Resistors bridging functional insulation only | P |
| 1.5.7.2 | Resistors bridging double or reinforced insulation between a.c. mains and other circuits | EL 2100-09 | No resistors bridging double or reinforced insulation DELHI TEST HOUSE Plot No.50, Phase - IV, Sector-57 HSIDC, Industrial Area Behind Parnami Hospital, Kundli Sonapat-131028 (Haryana) Tele-fax : 0130-2116529 | N/A |

TRF No. BIS_IT/PA_IS13252_V1.3



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)

Telefax : 0130-2116529

e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 12 of 113

Dated: 17/07/2020

IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to General Requirements

EL 2100 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|---|------------|---|---------|
| 1.5.7.3 | Resistors bridging double insulation or reinforced insulation between the a.c. mains supply and circuits connected to an antenna or coaxial cable | EL 2100-10 | Not connected to antenna or coaxial cable | N/A |
| 1.5.8 | Components in equipment for IT power distribution systems* | EL 2100-11 | Designed for TN power system | N/A |
| 1.5.9 | Surge suppressors | EL 2100-12 | No surge suppressor used | N/A |
| 1.5.9.1 | General* | EL 2100-13 | As above | N/A |
| 1.5.9.2 | Protection of VDRs* | EL 2100-14 | As above | N/A |
| 1.5.9.3 | Bridging of functional insulation by a VDR* | EL 2100-15 | As above | N/A |
| 1.5.9.4 | Bridging of basic insulation by a VDR* | EL 2100-16 | As above | N/A |
| 1.5.9.5 | Bridging of supplementary, double or reinforced insulation by a VDR* | EL 2100-17 | As above | N/A |

*- Total number of Requirements to be observed / inspected = 09

Total No of applicable Requirement = 04

No of Requirements for which the sample passed=04

Total number of tests to be conducted = 09

Total No of applicable Tests = 04

No. of tests for which the sample passed = 04

Certificate: It is certified that the above tests were performed and found to be passing/ failing in the requirement tested.

.....
(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonapat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSETM

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 13 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Electrical Safety

EL 2101 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|---------------------------------------|------------|---|---------|
| 1.6 | Power interface* | EL 2101-00 | See below | P |
| 1.6.1 | AC power distribution systems* | EL 2101-01 | TN power distribution system considered | P |
| 1.6.2 | Input current | EL 2101-02 | (See appended table 1.6.2) | P |
| 1.6.3 | Voltage limit of hand-held equipment* | EL 2101-03 | Not a handheld equipment | N/A |
| 1.6.4 | Neutral conductor * | EL 2101-04 | Neutral conductor is insulated from body by basic insulation throughout the equipment | P |

*- Total number of Requirements to be observed / inspected = 04

Total No of applicable Requirement = 03

No of Requirements for which the sample passed= 03

Total number of tests to be conducted = 01

Total No of applicable Tests = 01

No. of tests for which the sample passed= 01

Certificate: It is certified that the above tests were performed and found to be passing/ failing in the requirement tested.

.....
(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonipat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 14 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Marking Requirements

EL 2102 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|---|------------|---|---------|
| 1.7 | Marking and instructions* | EL 2102-00 | See below | P |
| 1.7.1 | Power rating and identification markings | | The required marking is located on the outside surface of the equipment | P |
| 1.7.1.1 | Power rating marking* | EL 2102-01 | Adequate power rating marked | P |
| | Rated voltage(s) or voltage ranges(s) (V)* | EL 2102-02 | 100-240V~ | P |
| | Multiple mains supply connections* | EL 2102-03 | No multiple mains supply connections used | N/A |
| | Symbol for nature of supply, for d.c. only*: | EL 2102-04 | AC mains supply | N/A |
| | Rated frequency or rated frequency range (Hz) *: | EL 2102-05 | 50/60Hz | P |
| | Rated current (mA or A)*: | EL 2102-06 | 0.3A | P |
| 1.7.1.2 | Identification markings* | EL 2102-07 | See below | P |
| | Manufacturer's name or trade-mark or identification mark *: | EL 2102-08 | Trade mark: DVE | P |
| | Model identification or type reference *: | EL 2102-09 | DSA-10PFP-05 050200 | P |
| | Symbol for Class II equipment only* : | EL 2102-10 | <input type="checkbox"/> | P |
| | Other markings and symbols*: | EL 2102-11 | Other markings and symbols does not give rise to misunderstanding | P |
| 1.7.1.3 | Use of graphical symbols* | EL 2102-12 | Adequate graphical symbol placed on marking label as per IEC 60417 | P |
| 1.7.2 | Safety instructions and marking* | EL 2102-13 | See below | P |
| 1.7.2.1 | General | EL 2102-14 | Appropriate safety instructions and markings provided | P |
| 1.7.2.2 | Disconnect devices* | EL 2102-15 | Built in Plug used as disconnect device | P |
| 1.7.2.3 | Overcurrent protective devices* | EL 2102-16 | Pluggable equipment type A | N/A |
| 1.7.2.4 | IT power distribution systems* | EL 2102-17 | No such system used | N/A |
| 1.7.2.5 | Operator access with a tool* | EL 2102-18 | Operator is not allowed to access with the tools | N/A |
| 1.7.2.6 | Ozone* | EL 2102-19 | Not producing ozone | N/A |
| 1.7.3 | Short duty cycles* | EL 2102-20 | For continuous operation | N/A |

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonapat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE®

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
 Telefax : 0130-2116529
 e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 15 of 113
 Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Marking Requirements

EL 2102 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|---|------------|--|---------|
| 1.7.4 | Supply voltage adjustment* | EL 2102-21 | No supply voltage adjustment provided | N/A |
| 1.7.5 | Power outlets on the equipment* | EL 2102-22 | No power outlet provided | N/A |
| 1.7.6 | Fuse identification (marking, special fusing characteristics, cross-reference) Fuse(s) shall clearly and adequately marked with fuse number and rating*. | EL 2102-23 | Marking adjacent to the fuse on PCB RF1: 3.3 OHM 2W OR 10 OHM 2W (See appended table 1.5.1) | P |
| 1.7.7 | Wiring terminals | EL 2102-24 | See below | N/A |
| 1.7.7.1 | Protective earthing and bonding terminals* | EL 2102-25 | No protective earthing and bonding terminals used | N/A |
| 1.7.7.2 | Terminals for a.c. mains supply conductors* | EL 2102-26 | Direct plug-in equipment | N/A |
| 1.7.7.3 | Terminals for d.c. mains supply conductors* | EL 2102-27 | No dc mains supply used | N/A |
| 1.7.8 | Controls and indicators | EL 2102-28 | No such controls & indicators used | N/A |
| 1.7.8.1 | Identification, location and marking*: | EL 2102-29 | As above | N/A |
| 1.7.8.2 | Colours* | EL 2102-30 | As above | N/A |
| 1.7.8.3 | Symbols according to IEC 60417*: | EL 2102-31 | No such symbol used | N/A |
| 1.7.8.4 | Markings using figures* : | EL 2102-32 | No marking using figure used | N/A |
| 1.7.9 | Isolation of multiple power sources* | EL 2102-33 | No multiple power sources used | N/A |
| 1.7.10 | Thermostats and other regulating devices* | EL 2102-34 | No thermostats or other regulating devices used. | N/A |
| 1.7.11 | Durability | EL 2102-35 | The marking is durable and legible, No curling observed | P |
| 1.7.12 | Removable parts* | EL 2102-36 | Marking not placed on removable parts | P |
| 1.7.13 | Replaceable batteries* | EL 2102-37 | No replaceable batteries used | N/A |
| | Language(s) | | As above | N/A |
| 1.7.14 | Equipment for restricted access locations* | EL 2102-38 | Equipment not intended for restricted access locations | N/A |

TRF No. BIS_IT/PA_IS13252_V1.3

JA

DELHI TEST HOUSE
 Plot No.50, Phase - IV, Sector-57
 HSIDC, Industrial Area
 Behind Parnami Hospital, Kundli
 Sonapat-131028 (Haryana)
 Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No 219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 16 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

*- Total number of Requirements to be observed / inspected = 35
Total No of applicable Requirement = 15
No of Requirements for which the sample passed= 15

Total number of tests to be conducted = 04
Total No of applicable Tests = 02
No. of tests for which the sample passed=02

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.


.....
(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonapat-131028 (Haryana)
Telefax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parmami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529

e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 17 of 113

Dated: 17/07/2020

IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Electrical Safety

EL 2103 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|--|------------|---|---------|
| 2.1 | Protection from electric shock and energy hazards* | EL 2103-00 | In compliance | P |
| 2.1.1 | Protection in operator access areas* | EL 2103-01 | The accessibility of hazardous is prevented with the final system | P |
| 2.1.1.1 | Access to energized parts | EL 2103-02 | Adequate protection against contact in operator access area | P |
| | Test by inspection : | | No access to energized parts | P |
| | Test with test finger (Figure 2A) | | No access to hazardous parts after applied test finger | P |
| | Test with test pin (Figure 2B): | | Test pin can't contact with bare parts at hazardous voltages | P |
| | Test with test probe (Figure 2C) | | No TNV circuit used | N/A |
| 2.1.1.2 | Battery compartments * | EL 2103-03 | No battery compartments used | N/A |
| 2.1.1.3 | Access to ELV wiring | EL 2103-04 | No ELV in operator access area | N/A |
| | Working voltage (V _{peak} or V _{rms}); minimum distance through insulation (mm) | | As above | — |
| 2.1.1.4 | Access to hazardous voltage circuit wiring | EL 2103-05 | No hazardous voltage in operator access area | N/A |
| 2.1.1.5 | Energy hazards : | EL 2103-06 | Energy not exceeding 240VA between any two points in output connector of secondary circuit. (See appended table 2.1.1.5) | P |
| 2.1.1.6 | Manual controls | EL 2103-07 | No manual control used | N/A |
| 2.1.1.7 | Discharge of capacitors in equipment | | No X-capacitor used | N/A |
| | Measured voltage (V); time-constant (s): | EL 2103-08 | As above | — |
| 2.1.1.8 | Energy hazards – d.c. mains supply | | No D.C mains supply | N/A |
| | a) Capacitor connected to the d.c. mains supply : | EL 2103-09 | As above | N/A |
| | b) Internal battery connected to the d.c. mains supply : | EL 2103-10 | As above | N/A |
| 2.1.1.9 | Audio amplifiers to be tested according to IEC 60065, cl. 9.1.1.: | EL 2103-11 | No audio amplifiers used | N/A |
| 2.1.2 | Protection in service access | EL 2103-12 | Checked by inspection unintentional | P |

TRF No. BIS_IT/PA_IS13252_V1.3 *Ja*

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parmami Hospital, Kundli
Sonapat-131028 (Haryana)
Telefax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 18 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Electrical Safety

EL 2103 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|---|------------|---|---------|
| | areas | | contact is unlikely during service operations | |
| 2.1.3 | Protection in restricted access locations | EL 2103-13 | Designed for operator access location | N/A |

*- Total number of Requirements to be observed / inspected = 03
Total No of applicable Requirement = 02
No of Requirements for which the sample passed= 02

Total number of tests to be conducted = 11
Total No of applicable Tests = 03
No. of tests for which the sample passed= 03

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonapat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 19 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Electrical Safety

EL 2104 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|--|------------|---|---------|
| 2.2 | SELV circuits* | EL 2104-00 | In compliance | P |
| 2.2.2 | Voltages under normal conditions | EL 2104-01 | SELV limits not exceeded under normal conditions (See appended table 2.2.2) | P |
| 2.2.3 | Voltages under fault conditions | EL 2104-02 | SELV limits not exceeded under fault conditions (See appended table 2.2.3) | P |
| 2.2.4 | Connection of SELV circuits to other circuits* : | EL 2104-03 | SELV circuits are only connected to other secondary circuits. SELV circuit and all interconnected circuits separated from primary by double insulation or reinforced insulation | P |

*- Total number of Requirements to be observed / inspected = 02

Total No of applicable Requirement = 02

No of Requirements for which the sample passed= 02

Total number of tests to be conducted = 02

Total No of applicable Tests = 02

No. of tests for which the sample passed= 02

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

.....
(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonapat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE®

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 20 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Electrical Safety

EL 2105 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|---|------------|--------------------------|---------|
| 2.3 | TNV circuits* | EL 2105-00 | No TNV circuits used | N/A |
| 2.3.1 | Type of TNV circuits: TNV-1 / TNV-2 / TNV-3 | EL 2105-01 | As above | N/A |
| | a) Limits of TNV-1: | EL 2105-02 | As above | N/A |
| | b) Limits of TNV-2 or TNV-3: Continuous voltages, combination of AC and DC values, are such that : $\frac{U_{ac}}{71} + \frac{U_{dc}}{120} \leq 1$ | EL 2105-03 | As above | — |
| 2.3.2 | Separation from other circuits and from accessible parts* | EL 2105-04 | As above | N/A |
| 2.3.2.1 | General requirements | EL 2105-05 | As above | N/A |
| 2.3.2.2 | Protection by basic insulation | EL 2105-06 | As above | N/A |
| 2.3.2.3 | Protection by earthing | EL 2105-07 | As above | N/A |
| 2.3.2.4 | Protection by other constructions : | EL 2105-08 | As above | N/A |
| 2.3.3 | Separation from hazardous voltages | EL 2105-09 | As above | N/A |
| 2.3.4 | Connection of TNV circuits to other circuits | EL 2105-10 | As above | N/A |
| 2.3.5 | Test for operating voltages generated externally | EL 2105-11 | As above | N/A |

*- Total number of Requirements to be observed / inspected = 02

Total No of applicable Requirement = 00

No of Requirements for which the sample passed= 00

Total number of tests to be conducted = 10

Total No of applicable Tests = 00

No. of tests for which the sample passed= 00

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested. (These requirements/tests are not applicable)

.....
(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonipat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 21 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Electrical Safety

EL 2106 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|---|------------|---------------------------------|---------|
| 2.4 | Limited current circuits * | EL 2106-00 | No limited current circuit used | N/A |
| 2.4.1 | General requirements | EL 2106-01 | As above | N/A |
| 2.4.2 | Limit values | EL 2106-02 | As above | N/A |
| 2.4.3 | Connection of limited current circuits to other circuits* | EL 2106-03 | As above | N/A |

*- Total number of Requirements to be observed / inspected = 03

Total No of applicable Requirement = 00

No of Requirements for which the sample passed=00

Total number of tests to be conducted = 01

Total No of applicable Tests = 00

No. of tests for which the sample passed= 00

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested. (These requirements/tests are not applicable)


.....
(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonapat -131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 22 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Electrical Safety

EL 2107 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|---|------------|---|---------|
| 2.5 | Limited power sources * | EL 2107-00 | See below | P |
| | a) Inherently limited output | EL 2107-01 | (See appended table 2.5) | P |
| | b) Impedance limited output | EL 2107-02 | No such construction used | N/A |
| | c) Regulating network limited output under normal operating and single fault condition Use of integrated circuit (IC) current limiters | EL 2107-03 | No such construction used | N/A |
| | d) Overcurrent protective device limited output | EL 2107-04 | As above | N/A |
| | Max. output voltage (V), Max. output current (A), Max. apparent power (VA) | EL 2107-05 | In compliance with table 2B (see appended table 2.5) | P |
| | Current rating of overcurrent protective device (A) | EL 2107-06 | No such construction used | N/A |

*- Total number of Requirements to be observed / inspected = 01
Total No of applicable Requirement = 01
No of Requirements for which the sample passed=01

Total number of tests to be conducted = 06
Total No of applicable Tests = 02
No. of tests for which the sample passed=02

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonipat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
 Telefax : 0130-2116529
 e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 23 of 113
 Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Electrical Safety

EL 2108 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|---|------------|---|---------|
| 2.6 | Provisions for earthing and bonding* | EL 2108-00 | Class II equipment. No provisions for earthing and bonding conductors | N/A |
| 2.6.1 | Protective earthing | EL 2108-01 | As above | N/A |
| 2.6.2 | Functional earthing : The Functional earthing either separated from hazardous voltages by double- or reinforced insulation or safely connected to Protective Bonding Conductor.* | EL 2108-02 | As above | N/A |
| | Use of symbol for functional earthing:* | EL 2108-03 | As above | N/A |
| 2.6.3 | Protective earthing and protective bonding conductors* | EL 2102-04 | As above | N/A |
| 2.6.3.2 | Size of protective earthing conductors | EL 2108-05 | As above | N/A |
| | Rated current (A), cross-sectional area (mm ²), AWG | | As above | |
| 2.6.3.3 | Size of protective bonding conductors | EL 2108-06 | As above | N/A |
| | Rated current (A), cross-sectional area (mm ²), AWG | | As above | |
| 2.6.3.4 | Resistance of earthing conductors and their terminations; resistance (Ω), voltage drop (V), test current (A), duration (min): | EL 2108-07 | As above | N/A |
| 2.6.3.5 | Colour of insulation*: | EL 2108-08 | As above | N/A |
| 2.6.4 | Terminals | | As above | N/A |
| 2.6.4.2 | Protective earthing and bonding terminals : Rated current(A), Type, Nominal thread diameter (mm) | EL 2108-09 | As above | N/A |
| 2.6.4.3 | Separation of the protective earthing conductor from protective bonding conductors* | EL 2108-10 | As above | N/A |
| 2.6.5 | Integrity of protective earthing* | | As above | N/A |
| 2.6.5.1 | Interconnection of equipment* | EL 2108-11 | As above | N/A |
| 2.6.5.2 | Components in protective earthing conductors and protective bonding conductors* | EL 2108-12 | As above | N/A |
| 2.6.5.3 | Disconnection of protective earth* | EL 2108-13 | As above | N/A |

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
 Plot No.50, Phase - IV, Sector-57
 HSIDC, Industrial Area
 Behind Parnami Hospital, Kundli
 Sonapat-131028 (Haryana)
 Telefax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhistesthouse.com, ag@delhistesthouse.com Website : www.delhistesthouse.com



ULR – TC53752010000861F

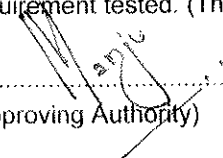
Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 24 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

| | | | | |
|---------|---|------------|----------|-----|
| 2.6.5.4 | Parts that can be removed by an operator* | EL 2108-14 | As above | N/A |
| 2.6.5.5 | Parts removed during servicing* | EL 2108-15 | As above | N/A |
| 2.6.5.6 | Corrosion resistance* | EL 2108-16 | As above | N/A |
| 2.6.5.7 | Screws for protective bonding* | EL 2108-17 | As above | N/A |
| 2.6.5.8 | Reliance on telecommunication network or cable distribution system* | EL 2108-18 | As above | N/A |

*- Total number of Requirements to be observed / inspected = 15
Total No of applicable Requirement = 00
No of Requirements for which the sample passed= 00

Total number of tests to be conducted = 04
Total No of applicable Tests = 00
No. of tests for which the sample passed= 00

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested. (These requirements/tests are not applicable)


.....
(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonipat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 25 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Electrical Safety

EL 2109 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|---|------------|--|---------|
| 2.7 | Overcurrent and earth fault protection in primary circuits* | EL 2109-00 | See below | P |
| 2.7.1 | Basic requirements: Protection in primary circuits against overcurrents, short-circuits and earth faults shall be provided, either as an integral part of the equipment or as part of building installation. | EL 2109-01 | Built-in protection device used in SWITCHING ADAPTER Building installation considered as for short circuit protection | P |
| | If pluggable equipment Type B or permanently connected equipment relies on protective device external to the equipment for protection, the equipment installation Instructions shall so state and shall also specify the requirements for short-circuit protection or overcurrent protection or, where necessary, for both. | | Pluggable equipment type A | N/A |
| 2.7.2 | Faults not simulated in 5.3.7* need not be fitted as an integral part of the equipment | EL 2109-02 | See Cl. 5.3.7 | N/A |
| 2.7.3 | Short-circuit backup protection | EL 2109-03 | Building Installation is considered as providing short circuit back up protection for Pluggable equipment type A | P |
| 2.7.4 | Number and location of protective devices : | EL 2109-04 | Overcurrent protections by fuse RF1 used in primary side | P |
| 2.7.5 | Protection by several devices* | EL 2109-05 | No such several device used | N/A |
| 2.7.6 | Warning to service personnel* : | EL 2109-06 | No service work necessary | N/A |

*- Total number of Requirements to be observed / inspected = 04
Total No of applicable Requirement = 01
No of Requirements for which the sample passed= 01

Total number of tests to be conducted = 03

Total No of applicable Tests = 03

No. of tests for which the sample passed= 03

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonipat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 26 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Electrical Safety

EL 2110 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|---|------------|----------------------------|---------|
| 2.8 | Safety Interlocks* | EL 2110-00 | Safety interlocks not used | N/A |
| 2.8.1 | General principles* | EL 2110-01 | As above | N/A |
| 2.8.2 | Protection requirements | EL 2110-02 | As above | N/A |
| 2.8.3 | Inadvertent reactivation | EL 2110-03 | As above | N/A |
| 2.8.4 | Fail-safe operation | EL 2110-04 | As above | N/A |
| 2.8.5 | Moving parts | EL 2110-05 | As above | N/A |
| 2.8.6 | Overriding* | EL 2110-06 | As above | N/A |
| 2.8.7 | Switches, relays and their related circuits | EL 2110-07 | As above | N/A |
| 2.8.7.1 | Separation distances for contact gaps and their related circuits` | EL 2110-08 | As above | N/A |
| 2.8.7.2 | Overload test | EL 2110-09 | As above | N/A |
| 2.8.7.3 | Endurance test | EL 2110-10 | As above | N/A |
| 2.8.7.4 | Electric strength test | EL 2110-11 | As above | N/A |
| 2.8.8 | Mechanical actuators | EL 2110-12 | As above | N/A |

*- Total number of Requirements to be observed / inspected = 03

Total No of applicable Requirement = 00

No of Requirements for which the sample passed= 00

Total number of tests to be conducted = 10

Total No of applicable Tests = 00

No. of tests for which the sample passed= 00

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested. (These requirements/tests are not applicable)

.....
(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonipat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 27 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Electrical Safety

EL 2111 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|---|------------|--|---------|
| 2.9 | Electrical insulation* | EL 2111-00 | In compliance | P |
| 2.9.1 | Properties of insulating materials* | EL 2111-01 | Natural rubber, materials containing asbestos and hygroscopic materials are not used as insulation | P |
| 2.9.2 | Humidity conditioning | EL 2111-02 | Test carried out on SWITCHING ADAPTER | P |
| | Relative Humidity : 93 ±3RH%, Temperature: t at 40 ± 2°C Duration : 120 hours | | At 93 ±3%RH, 40 ± 2°C for 120hrs | — |
| 2.9.3 | Grade of insulation* | EL 2111-03 | Insulation considered to be functional, supplementary, double or reinforced insulation used | P |
| 2.9.4 | Separation from hazardous voltages* | EL 2111-04 | See below | P |
| | Method(s) used | | Method 1:b Double or reinforced insulation between the parts to be separated | — |

*- Total number of Requirements to be observed / inspected = 04

Total No of applicable Requirement = 04

No of Requirements for which the sample passed= 04

Total number of tests to be conducted = 01

Total No of applicable Tests = 01

No. of tests for which the sample passed= 01

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonipat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
 Telefax : 0130-2116529
 e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 28 of 113
 Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Electrical Safety

EL 2112 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|----------|--|------------|---|---------|
| 2.10 | Clearances, creepage distances and distances through Insulation* | EL 2112-00 | In compliance | P |
| 2.10.1.1 | Frequency * | EL 2112-01 | 50/60Hz | P |
| 2.10.1.2 | Pollution degrees* | EL 2112-02 | Pd II | P |
| 2.10.1.3 | Reduced values for functional insulation | EL 2112-03 | In compliance with 5.3.4 c) | P |
| 2.10.1.4 | Intervening unconnected conductive parts | EL 2112-04 | No such construction used | N/A |
| 2.10.1.5 | Insulation with varying dimensions | EL 2112-05 | No such transformer used | N/A |
| 2.10.1.6 | Special separation requirements | EL 2112-06 | No TNV circuit used | N/A |
| 2.10.1.7 | Insulation in circuits generating starting pulses | EL 2112-07 | No such insulation used | N/A |
| 2.10.2 | Determination of working voltage | EL 2112-08 | See below | P |
| 2.10.2.2 | RMS working voltage | EL 2112-09 | (See appended table 2.10.2) | P |
| 2.10.2.3 | Peak working voltage | EL 2112-10 | (See appended table 2.10.2) | P |
| 2.10.3 | Clearances | EL 2112-11 | See appended table 2.10.3 & 2.10.4 Annex F considered | P |
| 2.10.3.1 | General | EL 2112-12 | As above | P |
| 2.10.3.2 | Mains transient voltages* | | Normal transient level considered | P |
| | a) AC mains supply * : | EL 2112-13 | OVC II (2500V peak) | P |
| | b) Earthed d.c. mains supplies* | EL 2112-14 | No d.c mains supply | N/A |
| | c) Unearthed d.c. mains supplies* : | EL 2112-15 | As above | N/A |
| | d) Battery operation* : | EL 2112-16 | No such battery used | N/A |
| 2.10.3.3 | Clearances in primary circuits | EL 2112-17 | (See appended table 2.10.3 & 2.10.4) | P |
| 2.10.3.4 | Clearances in secondary circuits | EL 2112-18 | Functional insulation In compliance with 5.3.4 c) | P |
| 2.10.3.5 | Clearances in circuits having starting pulses | EL 2112-19 | No circuits having starting pulses | N/A |
| 2.10.3.6 | Transients from a.c. mains supply : | EL 2112-20 | Considered | P |
| 2.10.3.7 | Transients from d.c. mains supply : | EL 2112-21 | No d.c mains supply | N/A |

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
 Plot No.50, Phase - IV, Sector-57
 HSIDC, Industrial Area
 Behind Parnami Hospital, Kundli
 Sonapat-131028 (Haryana)
 Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
 Telefax : 0130-2116529
 e-mail kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 29 of 113
 Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

| | | | | |
|-----------|---|------------|--|-----|
| 2.10.3.8 | Transients from telecommunication networks and cable distribution systems | EL 2112-22 | Not connected to telecommunication networks or cable distribution systems | N/A |
| 2.10.3.9 | Measurement of transient voltage levels | | Not measured, only transient level considered | N/A |
| | a) Transients from a mains supply | EL 2112-23 | As above | N/A |
| | For an a.c. mains supply | | As above | N/A |
| | For a d.c. mains supply | | No d.c mains supply | N/A |
| | b) Transients from a telecommunication network | EL 2112-24 | No TNV used | N/A |
| 2.10.4 | Creepage distances* | EL 2112-25 | (See appended table 2.10.3 & 2.10.4) | P |
| 2.10.4.1 | General | EL 2112-26 | As above | P |
| 2.10.4.2 | Material group and comparative tracking index : CTI tests* | EL 2112-27 | Material group IIIb considered | — |
| 2.10.4.3 | Minimum creepage distances | EL 2112-28 | (See appended table 2.10.3 & 2.10.4) | P |
| 2.10.5 | Solid insulation | EL 2112-29 | Complied with Cl. 2.10.5.2 to 2.10.5.14 | P |
| 2.10.5.1 | General | EL 2112-30 | As above | P |
| 2.10.5.2 | Distances through insulation | EL 2112-31 | Compliance for distances through insulation has been verified by dielectric strength test (See appended table 2.10.5) | P |
| 2.10.5.3 | Insulating compound as solid insulation | EL 2112-32 | PCB does not serve as insulation barrier | N/A |
| 2.10.5.4 | Semiconductor devices | EL 2112-33 | No such semiconductor devices used | N/A |
| 2.10.5.5 | Cemented joints | EL 2112-34 | No such cemented joints used | N/A |
| 2.10.5.6 | Thin sheet material – General | EL 2112-35 | Thin sheet insulating material used in transformer | P |
| 2.10.5.7 | Separable thin sheet material | EL 2112-36 | Insulating tape provided with reinforced insulation | P |
| 2.10.5.8 | Non-separable thin sheet material | EL 2112-37 | Non-separable thin sheet material not used | N/A |
| 2.10.5.9 | Thin sheet material – standard test procedure | EL 2112-38 | Alternative test procedure used | N/A |
| | Electric strength test as per Cl.5.2.2 | | As above | — |
| 2.10.5.10 | Thin sheet material – alternative test procedure | EL 2112-39 | Compliance verified by dielectric strength test | P |
| | Electric strength test as per Cl.5.2.2 | | Insulating tape complied with dielectric strength test as per Cl.5.2.2 | — |

TRF No. BIS_IT/PA_IS13252_V1.3 *JH*

DELHI TEST HOUSE
 Plot No.50, Phase - IV, Sector-57
 HSIDC, Industrial Area
 Behind Parnami Hospital, Kundli
 Sonapat-131028 (Haryana)
 Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
 Telefax : 0130-2116529
 e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

| | | |
|--------------------------------|--|----------------|
| Report No.219784200626KUNIT001 | IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / | Page 30 of 113 |
| Dated: 17/07/2020 | IEC 60950-1: 2005 + A1:2009 + A2 : 2013 | |

| | | | | |
|-----------|---|------------|--|-----|
| 2.10.5.11 | Insulation in wound components | EL 2112-40 | Safety certified triple insulated winding wire used (See appended table 1.5.1) | P |
| 2.10.5.12 | Wire in wound components | | Reinforced insulation | P |
| | If Peak Working voltage >71 V | | (See appended table 2.10.2) | P |
| | a) Basic insulation not under stress | EL 2112-41 | No such construction used | N/A |
| | b) Basic, supplementary, reinforced insulation | EL 2112-42 | As above | N/A |
| | c) Compliance with Annex U | EL 2112-43 | Safety certified triple insulated winding wire used (See appended table 1.5.1) | P |
| | d) Where two winding wires in contact inside wound component; angle between 45° and 90° | EL 2112-44 | Not crossing at an angle between 45° and 90° | N/A |
| 2.10.5.13 | Wire with solvent-based enamel in wound components | | No wire with solvent-based enamel in wound components used | N/A |
| | a) Electric strength test (Type test as per Cl.5.2.2) | EL 2112-45 | As above | — |
| | b) Electric Strength test (Routine test as per Cl.5.2.2) | EL 2112-46 | As above | — |
| 2.10.5.14 | Additional insulation in wound components | | No such additional insulation used | N/A |
| | If Peak Working Voltage >71V | | As above | N/A |
| | a) Basic insulation not under stress | EL 2112-47 | As above | N/A |
| | b) Supplementary, reinforced insulation | EL 2112-48 | As above | N/A |
| 2.10.6 | Construction of printed boards* | | See below | P |
| 2.10.6.1 | Uncoated printed boards | EL 2112-49 | Uncoated printed board used | P |
| 2.10.6.2 | Coated printed boards | EL 2112-50 | Coated printed boards not used | N/A |
| 2.10.6.3 | Insulation between conductors on the same inner surface of a printed board | EL 2112-51 | No such construction used | N/A |
| 2.10.6.4 | Insulation between conductors on different layers of a printed board* | | PCB layout doesn't serve as insulation barrier | N/A |
| | a) Minimum Thickness of insulation: 0.4mm or | EL 2112-52 | As above | N/A |
| | b) Confirm with one of the specification and pass the relevant tests as per Table 2R | EL 2112-53 | As above | N/A |
| 2.10.7 | Component external terminations | EL 2112-54 | No such construction used | N/A |

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
 Plot No.50, Phase - IV, Sector-57
 HSIDC, Industrial Area
 Behind Parnami Hospital, Kundli
 Sonapat-131028 (Haryana)
 Tele-fax : 0130-2116529



DELHI TEST HOUSETM

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 31 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

| | | | | |
|----------|---|------------|-----------------------------------|-----|
| 2.10.8 | Tests on coated printed boards and coated components | | Uncoated printed board used | N/A |
| 2.10.8.1 | Sample preparation and preliminary inspection* | EL 2112-55 | As above | N/A |
| 2.10.8.2 | Thermal conditioning | EL 2112-56 | As above | N/A |
| 2.10.8.3 | Electric strength test | EL 2112-57 | As above | N/A |
| 2.10.8.4 | Abrasion resistance test | EL 2112-58 | As above | N/A |
| 2.10.9 | Thermal cycling | EL 2112-59 | Uncoated printed board used | N/A |
| 2.10.10 | Test for Pollution Degree 1 environment and insulating compound | EL 2112-60 | Considered for Pollution degree 2 | N/A |
| 2.10.11 | Tests for semiconductor devices and cemented joints | EL 2112-61 | No such construction used | N/A |
| 2.10.12 | Enclosed and sealed parts | EL 2112-62 | No such construction used | N/A |

*- Total number of Requirements to be observed / inspected = 10
Total No of applicable Requirement = 05
No of Requirements for which the sample passed= 05

Total number of tests to be conducted : 53
Total No of applicable Tests = 20
No. of tests for which the sample passed= 20

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.


.....
(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3 

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonapat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parmami Hospital, Kundli, Sonapat-131028, Haryana.
Telefax : 0130-2116529
e-mail kundli@delhitesthouse.com ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 32 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Wiring

EL 2113 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|---|------------|---|---------|
| 3.0 | Wiring, connections and supply* | EL 2113-00 | See below | P |
| 3.1.1 | Current rating and overcurrent protection | EL 2113-01 | Interconnecting cable adequate for current intended to carry when the equipment is operating under normal load | P |
| 3.1.2 | Protection against mechanical damage* | EL 2113-02 | Wireways are smooth and free from sharp edges | P |
| 3.1.3 | Securing of internal wiring* | EL 2113-03 | Internal wiring is secure from excessive strain, loosening of conductors & damage of conductor insulation | P |
| 3.1.4 | Insulation of conductors | EL 2113-04 | Adequate insulation of conductor of internal wiring provided | P |
| 3.1.5 | Beads and ceramic insulators | EL 2113-05 | No beads and ceramics insulators used | N/A |
| 3.1.6 | Screws for electrical contact pressure* | EL 2113-06 | No such screws used | N/A |
| 3.1.7 | Insulating materials in electrical connections* | EL 2113-07 | No such insulating materials in electrical connections | N/A |
| 3.1.8 | Self-tapping and spaced thread screws* | EL 2113-08 | No self-tapping and spaced thread screws used | N/A |
| 3.1.9 | Termination of conductors : 10 N pull test | EL 2113-09 | Terminations not became displaced so that clearance & creepage distance reduced, 10N pull applied, No hazard occurred | P |
| 3.1.10 | Sleeving on wiring* | EL 2113-10 | No such construction used | N/A |

*- Total number of Requirements to be observed / inspected = 07

Total No of applicable Requirement = 03

No of Requirements for which the sample passed= 03

Total number of tests to be conducted = 04

Total No of applicable Tests = 03

No. of tests for which the sample passed= 03

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parmami Hospital, Kundli
Sonapat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Pannami Hospital, Kundli, Sonapat-131028 (Haryana)
 Telefax : 0130-2116529
 e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 33 of 113

Dated: 17/07/2020

IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Wiring

EL 2114 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|--|------------|--|---------|
| 3.2 | Connection to a mains supply* | EL 2114-00 | In compliance | P |
| 3.2.1 | Means of connection | | See below | P |
| 3.2.1.1 | Connection to an a.c. mains supply* | EL 2114-01 | For safe and reliable connection to AC mains supply, equipment provided with a mains plug that is a part of direct plug-in equipment | P |
| 3.2.1.2 | Connection to a d.c. mains supply* | EL 2114-02 | No d.c mains supply | N/A |
| 3.2.2 | Multiple supply connections | EL 2114-03 | No multiple supply connections | N/A |
| 3.2.3 | Permanently connected equipment | EL 2114-04 | Pluggable equipment type A | N/A |
| 3.2.4 | Appliance inlets: Are so Located that parts at hazardous voltage are not accessible during insertion or removal of the connector, connector can be inserted without difficulty and after insertion of the connector, the equipment is not supported by the connector for any position of normal use on a flat surface (appliance inlets complying with IEC 60309 or IEC 60320 considered to comply with this requirement. | EL 2114-05 | Direct plug-in SWITCHING ADAPTER | N/A |
| 3.2.5 | Power supply cords | | As above | N/A |
| 3.2.5.1 | AC power supply cords* | EL 2114-06 | As above | N/A |
| | Rated current (A), cross-sectional area (mm ²), AWG | | As above | N/A |
| 3.2.5.2 | DC power supply cords* | EL 2114-07 | As above | N/A |
| 3.2.6 | Cord anchorages and strain relief | | As above | N/A |
| | Mass of the equipment: Pull Force (N): | EL 2114-08 | As above | N/A |
| | b) Longitudinal displacement: 2 mm (Max) | EL 2114-09 | As above | N/A |
| 3.2.7 | Protection against mechanical damage | EL 2114-10 | As above | N/A |
| 3.2.8 | Cord guards | | As above | N/A |

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
 Plot No.50, Phase - IV, Sector-57
 HSIDC, Industrial Area
 Behind Pannami Hospital, Kundli
 Sonapat -131028 (Haryana)
 Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 34 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

| | | | | |
|-------|--|------------|----------|-----|
| | a) Diameter or minor dimension D (mm) : Test mass (g) : | EL 2114-11 | As above | N/A |
| | b) Radius of curvature of cord : 1.5 D (Min) | EL 2114-12 | As above | N/A |
| 3.2.9 | Supply wiring space | EL 2114-13 | As above | N/A |

*- Total number of Requirements to be observed / inspected = 05

Total No of applicable Requirement = 02

No of Requirements for which the sample passed= 02

Total number of tests to be conducted = 09

Total No of applicable Tests = 00

No. of tests for which the sample passed= 00

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonipat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parmami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 35 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Wiring

EL 2115 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|---|------------|----------------------------------|---------|
| 3.3 | Wiring terminals for connection of external conductors* | EL 2115-00 | Direct plug-in SWITCHING ADAPTER | N/A |
| 3.3.1 | Wiring terminals* | EL 2115-01 | As above | N/A |
| 3.3.2 | Connection of non-detachable power supply cords | EL 2115-02 | As above | N/A |
| 3.3.3 | Screw terminals* | EL 2115-03 | As above | N/A |
| 3.3.4 | Conductor sizes to be connected | EL 2115-04 | As above | N/A |
| | Rated current (A), cord/cable type, cross-sectional area (mm ²) | | As above | — |
| 3.3.5 | Wiring terminal sizes | EL 2115-05 | As above | N/A |
| | Rated current (A), type, nominal thread diameter (mm) | | As above | — |
| 3.3.6 | Wiring terminal design | EL 2115-06 | As above | N/A |
| 3.3.7 | Grouping of wiring terminals* | EL 2115-07 | As above | N/A |
| 3.3.8 | Stranded wire | EL 2115-08 | As above | N/A |

*- Total number of Requirements to be observed / inspected = 04

Total No of applicable Requirement = 00

No of Requirements for which the sample passed= 00

Total number of tests to be conducted = 05

Total No of applicable Tests = 00

No. of tests for which the sample passed= 00

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested. (These requirements/tests are not applicable).

.....
(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parmami Hospital, Kundli
Sonapat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)

Telefax : 0130-2116529

e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 36 of 113

Dated: 17/07/2020

IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Wiring

EL 2116 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|--|------------|--|---------|
| 3.4 | Disconnection from the mains supply* | EL 2116-00 | See below | P |
| 3.4.1 | General Requirement A disconnect device or devices shall be provided to disconnect the equipment from the mains supply for servicing. | EL 2116-01 | In compliance | P |
| 3.4.2 | Disconnect devices* | EL 2116-02 | Plug used as disconnect device | P |
| 3.4.3 | Permanently connected equipment* | EL 2116-03 | Pluggable equipment type A | N/A |
| 3.4.4 | Parts which remain energized* | EL 2116-04 | No parts remain energized | P |
| 3.4.5 | Switches in flexible cords* | EL 2116-05 | No switch in flexible cords | N/A |
| 3.4.6 | Number of poles - single-phase and d.c. equipment* | EL 2116-06 | Disconnect device disconnect both poles simultaneously | P |
| 3.4.7 | Number of poles - three-phase equipment* | EL 2116-07 | Not a three-phase equipment | N/A |
| 3.4.8 | Switches as disconnect devices* | EL 2116-08 | No such switches used as disconnect devices | N/A |
| 3.4.9 | Plugs as disconnect devices* | EL 2116-09 | Plug is intended to use as disconnect devices | P |
| 3.4.10 | Interconnected equipment* | EL 2116-10 | Not interconnected equipment | N/A |
| 3.4.11 | Multiple power sources* | EL 2116-11 | No multiple power sources | N/A |

*- Total number of Requirements to be observed / inspected = 11

Total No of applicable Requirement = 05

No of Requirements for which the sample passed: 05

Total number of tests to be conducted : 01

Total No of applicable Tests = 01

No. of tests for which the sample passed: 01

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonapat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 37 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Wiring

EL 2117 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|--|------------|--|---------|
| 3.5 | Interconnection of equipment* | EL 2117-00 | In compliance | P |
| 3.5.1 | General requirements* | EL 2117-01 | Equipment is intended to be electrically connected to interconnecting circuits within the requirements of SELV circuits. | P |
| 3.5.2 | Types of interconnection circuits* | EL 2117-02 | Interconnection circuits of SELV through secondary interconnecting cables and SELV circuits used | P |
| 3.5.3 | ELV circuits as interconnection circuits * | EL 2117-03 | No ELV circuits | N/A |
| 3.5.4 | Data ports for additional equipment | EL 2117-04 | No such data ports evaluated | N/A |

*- Total number of Requirements to be observed / inspected = 04

Total No of applicable Requirement = 03

No of Requirements for which the sample passed= 03

Total number of tests to be conducted = 01

Total No of applicable Tests = 00

No. of tests for which the sample passed= 00

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

.....
(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonipat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 38 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Mechanical Properties

EL 2118 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|--|------------|--|---------|
| 4 | PHYSICAL REQUIREMENTS* | EL 2118-00 | See below | P |
| 4.1 | Stability | EL 2118-01 | Unit is physically stable | P |
| | a) A unit having a mass of 7 kg or more shall not fall over when tilted to an angle of 10° from its normal upright position. Alternatively, the unit is placed in its intended position of use on a plane, inclined at an angle of 10° to the horizontal, and then rotated slowly through an angle of 360° about its normal vertical axis. | EL 2118-02 | Unit having a mass less than 7Kg, no further test required | N/A |
| | b) A floor-standing unit having a mass of 25 kg or more shall not fall over when a force equal to 20 % of the weight of the unit, but not more than 250 N, is applied in any direction except upwards, at a height not exceeding 2 m from the floor. | EL 2118-03 | Unit is not floor standing | N/A |
| | c) A floor-standing unit shall not fall over when a constant downward force of 800 N is applied at the point of maximum moment to any horizontal surface of at least 125 mm by at least 200 mm, at a height up to 1 m from the floor. | EL 2118-04 | As above | N/A |

*- Total number of Requirements to be observed / inspected = 01

Total No of applicable Requirement = 01

No of Requirements for which the sample passed: 01

Total number of tests to be conducted : 04

Total No of applicable Tests = 01

No. of tests for which the sample passed: 01

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonapat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE®

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 39 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Mechanical Properties

EL 2119 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|---|------------|---|---------|
| 4.2 | Mechanical Strength | EL 2119-00 | See below | P |
| 4.2.1 | General | EL 2119-01 | Adequate mechanical strength with no hazards when subjected to unexpected handling | P |
| 4.2.2 | Steady force test, 10 N | EL 2119-02 | 10N applied to components and parts other than serve as enclosure, No hazard occurred | P |
| 4.2.3 | Steady force test, 30 N | EL 2119-03 | No such doors or covers used | N/A |
| 4.2.4 | Steady force test, 250 N | EL 2119-04 | 250N applied to external enclosure, No hazard occurred | P |
| 4.2.5 | Impact test | EL 2119-05 | See Cl. 4.2.6 | N/A |
| | a) Fall test as per Fig. 4A | EL 2119-06 | As above | N/A |
| | b) Swing test as per Fig. 4A | EL 2119-07 | As above | N/A |
| 4.2.6 | Drop test; height (mm) : | EL 2119-08 | SWITCHING ADAPTER dropped three times from the height of 1000mm, No damage occurred | P |
| 4.2.7 | Stress relief test | EL 2119-09 | Test conducted at 70°C for 7hrs No shrinkage or distortion observed on enclosure | P |
| 4.2.8 | Cathode Ray Tubes | EL 2119-10 | No CRT used | N/A |
| 4.2.9 | High Pressure Lamps* | EL 2119-11 | No high pressure lamps used | N/A |
| 4.2.10 | Wall or ceiling mounted equipment; force(N) | EL 2119-12 | Equipment not intended for wall or ceiling mounted | N/A |

*- Total number of Requirements to be observed / inspected = 01

Total No of applicable Requirement = 00

No of Requirements for which the sample passed= 00

Total number of tests to be conducted = 12

Total No of applicable Tests = 06

No. of tests for which the sample passed= 06

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

.....
(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonapat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
 Telefax : 0130-2116529
 e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 40 of 113
 Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Mechanical Properties

EL 2120 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|---|------------|---|---------|
| 4.3 | Design and Construction* | EL 2120-00 | In compliance | P |
| 4.3.1 | Edges and corners* | EL 2120-01 | Edges and corners are smooth and rounded | P |
| 4.3.2 | Handles and manual controls; force (N)..... | EL 2120-02 | No handles and manual controls | N/A |
| 4.3.3 | Adjustable controls | EL 2120-03 | No adjustable controls used | N/A |
| 4.3.4 | Securing of parts | EL 2120-04 | No loosening of parts impairing creepage or clearance distances is likely to occurred | P |
| 4.3.5 | Connections by Plugs and Sockets* | EL 2120-05 | No mismatching of connectors on hazardous voltage used and other mismatching is not likely to create any hazard | P |
| 4.3.6 | Direct plug-in equipment | EL 2120-06 | Not imposed undue stress on socket outlet | P |
| | Torque | EL 2120-07 | Applied torque: 0.1Nm | P |
| | Compliance with the relevant mains plug standard | EL 2120-08 | Plug dimension and configuration as per IS 1293:2019 (See Attachment II) | P |
| 4.3.7 | Heating elements in earthed equipment* | EL 2120-09 | No heating elements used | N/A |
| 4.3.8 | Batteries | | No batteries used | N/A |
| | a) Overcharging of a rechargeable battery | EL 2120-10 | As above | N/A |
| | b) Unintentional charging of a non-rechargeable battery | EL 2120-11 | As above | N/A |
| | c) Reverse charging of a rechargeable battery | EL 2120-12 | As above | N/A |
| | d) Excessive discharging rate for any battery | EL 2120-13 | As above | N/A |
| | e) Electric strength as per Cl.5.3.9.2 | EL 2120-14 | As above | N/A |
| 4.3.9 | Oil & grease* | EL 2120-15 | No oil and grease used | N/A |
| 4.3.10 | Dust, powders, liquids and gases | EL 2120-16 | No dust, powders produced | N/A |
| 4.3.11 | Containers for liquids or gases | EL 2120-17 | No container for liquid or gases | N/A |
| 4.3.12 | Flammable liquids | EL 2120-18 | Flammable liquids not used | N/A |
| 4.3.13 | Radiation | | See below | N/A |

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
 Plot No.50, Phase - IV, Sector-57
 HSIDC, Industrial Area
 Behind Parnami Hospital, Kundli
 Sonapat-131028 (Haryana)
 Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parmami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 41 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

| | | | | |
|------------|---|------------|---|-----|
| 4.3.13.2 | Ionizing radiation | EL 2120-19 | Ionizing radiation not generated | N/A |
| 4.3.13.3 | Effect of ultraviolet (UV) radiation on materials | EL 2120-20 | Ultraviolet (UV) radiation not produced | N/A |
| 4.3.13.4 | Human exposure to ultraviolet (UV) radiation | EL 2120-21 | No human exposure to ultraviolet radiation used | N/A |
| 4.3.13.5 | Lasers (including laser diodes) and LED's: | | No such laser diode & LED's used | N/A |
| 4.3.13.5.1 | Lasers (including laser diodes) For laser see IEC 60825-1, respective part as applicable. | EL 2120-22 | As above | N/A |
| | Laser class | | As above | |
| 4.3.13.5.2 | Light emitting diodes (LED's) | EL 2120-23 | As above | N/A |
| 4.3.13.6 | Other types* | EL 2120-24 | Other types of radiation not generated | N/A |

*- Total number of Requirements to be observed / inspected = 06
Total No of applicable Requirement = 03
No of Requirements for which the sample passed= 03

Total number of tests to be conducted = 19
Total No of applicable Tests = 04
No. of tests for which the sample passed= 04

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

.....
(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parmami Hospital, Kundli
Sonapat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 42 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Mechanical Properties

EL 2121 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|---|------------|--------------------------------|---------|
| 4.4 | Protection against hazardous moving parts | EL 2121-00 | No hazardous moving parts used | N/A |
| 4.4.1 | General | EL 2121-01 | As above | N/A |
| 4.4.2 | Protection in operator access areas | EL 2121-02 | As above | N/A |
| 4.4.3 | Protection in restricted access locations * | EL 2121-03 | As above | N/A |
| 4.4.4 | Protection in service access areas* | EL 2121-04 | As above | N/A |
| 4.4.5 | Protection against moving fan blades | EL 2121-05 | As above | N/A |
| 4.4.5.1 | General* | EL 2121-06 | As above | N/A |
| | Not considered likely to cause pain or injury. a).....: | EL 2121-07 | As above | N/A |
| | Is considered likely to cause pain, not injury. b) | EL 2121-08 | As above | N/A |
| | Considered likely to cause injury. c).....: | EL 2121-09 | As above | N/A |
| 4.4.5.2 | Protection for users* | EL 2121-10 | As above | N/A |
| | Use of symbol or warning* | EL 2121-11 | As above | N/A |
| 4.4.5.3 | Protection for service persons* | EL 2121-12 | As above | N/A |
| | Use of symbol or warning * | EL 2121-13 | As above | N/A |

*- Total number of Requirements to be observed / inspected = 07

Total No of applicable Requirement = 00

No of Requirements for which the sample passed= 00

Total number of tests to be conducted = 07

Total No of applicable Tests = 00

No. of tests for which the sample passed= 00

Certificate: It is certified that the above tests were performed and found to be ~~passing~~/failing in the requirement tested. (These requirements/tests are not applicable)

.....
(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonipat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSETM

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 43 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Thermal Properties

EL 2122 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|---|------------|---|---------|
| 4.5 | Thermal Requirements* | EL 2122-00 | See below | P |
| 4.5.1 | General | EL 2122-01 | In compliance | P |
| 4.5.2 | Temperature tests under normal load condition as per Cl.1.4.5 | EL 2122-02 | Maximum normal load on SWITCHING ADAPTER | P |
| 4.5.3 | Temperature limits for materials* | EL 2122-03 | (See appended table 4.5) | P |
| 4.5.4 | Touch temperature limits* | EL 2122-04 | (See appended table 4.5) | P |
| 4.5.5 | Resistance to abnormal heat | EL 2122-05 | Safety certified enclosure material used (See appended table 1.5.1) | P |

*- Total number of Requirements to be observed / inspected = 03
Total No of applicable Requirement = 03
No of Requirements for which the sample passed= 03

Total number of tests to be conducted = 03
Total No of applicable Tests = 03
No. of tests for which the sample passed = 03

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

.....
(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonipat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Pamami Hospital, Kundli, Sonapat-131028 (Haryana)
 Telefax : 0130-2116529
 e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 44 of 113
 Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Mechanical Properties

EL 2123 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|---|------------|---------------------------|---------|
| 4.6 | Openings in enclosures* | EL 2123-00 | No openings in enclosures | N/A |
| 4.6.1 | Top and side openings | EL 2123-01 | As above | N/A |
| | Dimensions (mm) : | | As above | — |
| 4.6.2 | Bottoms of fire enclosures : | EL 2123-02 | As above | N/A |
| | Construction of the bottom, dimensions (mm) : | | As above | — |
| 4.6.3 | Doors or covers in fire enclosures* | EL 2123-03 | As above | N/A |
| 4.6.4 | Openings in transportable equipment | EL 2123-04 | As above | N/A |
| 4.6.4.1 | Constructional design measures | EL 2123-05 | As above | N/A |
| | Dimensions (mm) | | As above | — |
| 4.6.4.2 | Evaluation measures for larger openings | EL 2123-06 | As above | N/A |
| 4.6.4.3 | Use of metallized parts | EL 2123-07 | As above | N/A |
| 4.6.5 | Adhesives for constructional purposes: Compliance is checked by examination of the construction and of the available data. If such data is not available, compliance is checked by the following tests. | EL 2123-08 | As above | N/A |
| | a) Temperature Conditioning at : 100 °C ± 2 °C for one week; or 90 °C ± 2 °C for three weeks; or 82 °C ± 2 °C for eight weeks. | EL 2123-09 | As above | N/A |
| | After temperature conditioning b) Leave the sample between 20°C to 30°C for 1 hour | EL 2123-10 | As above | N/A |
| | c) Place the sample at - 40°C±2°C for 4 hours | EL 2123-11 | As above | N/A |
| | d) Remove and allow the sample to come to any convenient temperature between 20 °C and 30 °C for 8 h; | EL 2123-12 | As above | N/A |
| | e) Place the sample in a cabinet at 91 % to 95 % relative humidity for 72 h; | EL 2123-13 | As above | N/A |

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
 Plot No.50, Phase - IV, Sector-57
 HSIDC, Industrial Area
 Behind Pamami Hospital, Kundli
 Sonapat-131028 (Haryana)
 Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 45 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

| | | | |
|---|------------|----------|-----|
| f) Remove the sample and leave it at any convenient temperature between 20 °C and 30 °C for 1 h; | EL 2123-14 | As above | N/A |
| g) Place the sample in an oven at the temperature used for the temperature conditioning for 4 h; | EL 2123-15 | As above | N/A |
| h) Remove the sample and allow it to reach any convenient temperature between 20 °C; and 30 °C for 8 h. | EL 2123-16 | As above | N/A |
| i) The sample is then immediately subjected to the tests of Cl.4.2 as applicable. | EL 2123-17 | As above | N/A |

*- Total number of Requirements to be observed / inspected = 02

Total No of applicable Requirement = 00

No of Requirements for which the sample passed: 00

Total number of tests to be conducted : 16

Total No of applicable Tests = 00

No. of tests for which the sample passed: 00

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested. (These requirements/tests are not applicable)

.....
(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonapat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
 Telefax : 0130-2116529
 e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 46 of 113
 Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Fire Safety

EL 2124 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|--|------------|---|---------|
| 4.7 | Resistance to fire* | EL 2124-00 | See below | P |
| 4.7.1 | Reducing the risk of ignition and spread of flame | | Components and materials have adequate flammability classification (See appended table 1.5.1) | P |
| | Method 1, selection and application of components wiring and materials OR | EL 2124-01 | Method 1 used | P |
| | Method 2, application of all of simulated fault condition tests | EL 2124-02 | Method 2 not used | N/A |
| 4.7.2 | Conditions for a fire enclosure* | | See below | P |
| 4.7.2.1 | Parts requiring a fire enclosure* | EL 2124-03 | All parts cover inside fire enclosure | P |
| 4.7.2.2 | Parts not requiring a fire enclosure | EL 2124-04 | Connectors in secondary circuits | N/A |
| 4.7.3 | Materials* | EL 2124-05 | See below | P |
| 4.7.3.1 | General* | EL 2124-06 | Components & materials have adequate flammability classification. (See appended table 1.5.1) | P |
| | a)Class of material used* | EL 2124-07 | (See appended table 1.5.1) | P |
| | b) Where HB40 CLASS MATERIAL, HB75 CLASS MATERIAL or HBF CLASS FOAMED MATERIAL, is required, material passing the glow-wire test at 550 °C according to IEC 60695-2-11 is acceptable as an alternative. | EL 2124-08 | No such material used | N/A |
| | c) Where it is not practical to protect components against overheating under fault conditions, the components shall be mounted on V-1 CLASS MATERIAL. Additionally, such components shall be separated from material of a class lower than V-1 CLASS MATERIAL by at least 13 mm of air, or by a solid barrier of V-1 CLASS MATERIAL. | EL 2124-09 | All components mounted on V-0 flammability class PCB material (See appended table 1.5.1) | P |
| 4.7.3.2 | Materials for fire enclosures | | Material of adequate flammability classification used | P |

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
 Plot No.50, Phase - IV, Sector-57
 HSIDC, Industrial Area
 Behind Parnami Hospital, Kundli
 Sonapat-131028 (Haryana)
 Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
 Telefax : 0130-2116529
 e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 47 of 113
 Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

| | | | | |
|---------|--|------------|--|-----|
| | a) For MOVABLE EQUIPMENT having a total mass not exceeding 18 kg, the material of a FIRE ENCLOSURE, in the thinnest significant wall thickness used, shall be of V-1 CLASS MATERIAL or shall pass the test of Clause A.2. | EL 2124-10 | V-0 flammability class material used (See appended table 1.5.1) | P |
| | b) For MOVABLE EQUIPMENT having a total mass exceeding 18 kg and for all STATIONARY EQUIPMENT, the material of a FIRE ENCLOSURE, in the thinnest significant wall thickness used, shall be of 5VB CLASS MATERIAL or shall pass the test of Clause A.1. | EL 2124-11 | Movable equipment having a total mass not exceeding 18kg | N/A |
| | c) Materials for components that fill an opening in a FIRE ENCLOSURE, and that are intended to be mounted in this opening shall : be of V-1 CLASS MATERIAL; or pass the tests of Clause A.2; or comply with the flammability requirements of the relevant IEC component standard | EL 2124-12 | No such construction used | N/A |
| | d) Plastic materials of a FIRE ENCLOSURE shall be located more than 13 mm through air from arcing parts such as unenclosed commutators and unenclosed switch contacts. | EL 2124-13 | As above | N/A |
| | e) Plastic materials of a FIRE ENCLOSURE located less than 13mm through air from non-arcing parts which, under any condition of normal or abnormal operation, could attain a temperature sufficient to ignite the material, shall be capable of passing the test of IEC 60695-2-20 | EL 2124-14 | As above | N/A |
| 4.7.3.3 | Materials for components and other parts outside fire enclosures * | | Components & materials have adequate flammability classification. (See appended table 1.5.1) | P |

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
 Plot No.50, Phase - IV, Sector-57
 HSIDC, Industrial Area
 Behind Parnami Hospital, Kundli
 Sonapat-131028 (Haryana)
 Tele-fax : 0130-2116529



DELHI TEST HOUSETM

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
 Telefax : 0130-2116529
 e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

| | | |
|--------------------------------|--|----------------|
| Report No.219784200626KUNIT001 | IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / | Page 48 of 113 |
| Dated: 17/07/2020 | IEC 60950-1: 2005 + A1:2009 + A2 : 2013 | |

| | | | | |
|---------|--|------------|---|-----|
| | a) Materials shall be of : – HB75 CLASS MATERIAL if the thinnest significant thickness of this material is < 3 mm, or – HB40 CLASS MATERIAL if the thinnest significant thickness of this material is ≥ 3 mm, or – HBF CLASS FOAMED MATERIAL.* | EL 2124-15 | No such material used | N/A |
| | b) Connectors shall comply with one of the following: – be made of V-2 CLASS MATERIAL; or – pass the tests of Clause A.2; or – comply with the flammability requirements of the relevant IEC component standard; or – be mounted on V-1 CLASS MATERIAL and be of a small size; or – be located in a SECONDARY CIRCUIT supplied by a power source that is limited to a maximum of 15 VA (see 1.4.11) under normal operating conditions and after a single fault in the equipment (see 1.4.14). | EL 2124-16 | Secondary connector mounted on V-0 flammability class PCB material (See appended table 1.5.1) | P |
| 4.7.3.4 | Materials for components and other parts inside fire enclosures | | In compliance | P |
| | a) Inside FIRE ENCLOSURES, materials for components and other parts shall comply with one of the following: – be of V-2 CLASS MATERIAL or HF-2 CLASS FOAMED MATERIAL; or – pass the flammability test described in Clause A.2; or – meet the flammability requirements of a relevant IEC component standard that includes such requirements. | EL 2124-17 | Safety certified PCB used with V-0 flammability class material (See appended table 1.5.1) | P |
| | Requirements for voltage dependent resistors (VDR's) are in Annex Q.* | EL 2124-18 | No VDR's used | N/A |

TRF No. BIS_IT/PA_IS13252_V1.3

Jr

DELHI TEST HOUSE
 Plot No.50, Phase - IV, Sector-57
 HSIDC, Industrial Area
 Behind Parnami Hospital, Kundli
 Sonapat-131028 (Haryana)
 Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Pannami Hospital, Kundli, Sonapat-131028 (Haryana)
 Telefax : 0130-2116529

e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC53752010000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 49 of 113

Dated: 17/07/2020

IEC 60950-1: 2005 + A1:2009 + A2 : 2013

| | | | | |
|---------|---|------------|----------------------------------|-----|
| 4.7.3.5 | Materials for air filter assemblies : Air filter assemblies shall be constructed of V-2 CLASS MATERIAL, or HF-2 CLASS FOAMED MATERIAL. | EL 2124-19 | No air filter assemblies used | N/A |
| 4.7.3.6 | Materials used in high-voltage components | | High-voltage components not used | N/A |
| | a) High-voltage components operating at peak-to-peak voltages exceeding 4 kV shall either be of V-2 CLASS MATERIAL, or HF-2 CLASS FOAMED MATERIAL, or comply with 14.4 of IEC 60065 or pass the needle flame test according to IEC 60695-11-5. | EL 2124-20 | As above | N/A |
| | b) Compliance is checked by inspection of the equipment and material data sheets and, if necessary, by – the tests for V-2 CLASS MATERIAL or HF-2 CLASS FOAMED MATERIAL; or – the test described in 14.4 of IEC 60065; or – the needle flame test according to IEC 60695-11-5. | EL 2124-21 | As above | N/A |
| | c) In addition to above, the following details apply, referring to clauses of IEC 60695-11-5: Clause 7 - Severities | EL 2124-22 | As above | N/A |
| | Clause 8 - Conditioning | EL 2124-23 | As above | N/A |
| | Clause 11 - Evaluation of test results | EL 2124-24 | As above | N/A |

TRF No. BIS_IT/PA_IS13252_V1.3

Jst

DELHI TEST HOUSE
 Plot No.50, Phase - IV, Sector-57
 HSIDC, Industrial Area
 Behind Pannami Hospital, Kundli
 Sonapat-131028 (Haryana)
 Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR - TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 50 of 113

Dated: 17/07/2020

IEC 60950-1: 2005 + A1:2009 + A2 : 2013

*- Total number of Requirements to be observed / inspected = 07

Total No of applicable Requirement = 05

No of Requirements for which the sample passed= 05

Total number of tests to be conducted = 18

Total No of applicable Tests = 05

No. of tests for which the sample passed= 05

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

.....
(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonipat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Panami Hospital, Kundli, Sonapat-131028 (Haryana)
 Telefax : 0130-2116529
 e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 51 of 113
 Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Insulating Properties

EL 2125 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|---|------------|---|---------|
| 5.0 | ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS* | EL 2125-00 | In compliance | P |
| 5.1 | Touch current and protective conductor current* | EL 2125-01 | Test conducted on EUT | P |
| 5.1.2 | Configuration of equipment under test (EUT)* | EL 2125-02 | See below | P |
| 5.1.2.1 | Single connection to an a.c. mains supply* | EL 2125-03 | Single connection to a.c. mains supply used | P |
| 5.1.2.2 | Redundant multiple connections to an a.c. mains supply* | EL 2125-04 | No multiple connection used | N/A |
| 5.1.2.3 | Simultaneous multiple connections to an a.c. mains supply | EL 2125-05 | As above | N/A |
| 5.1.3 | Test circuit | EL 2125-06 | As per Figure 5A | P |
| 5.1.4 | Application of measuring instrument | EL 2125-07 | Refer ANNEX D1 | P |
| 5.1.5 | Test procedure | EL 2125-08 | In compliance | P |
| 5.1.6 | Test measurements | | See below | P |
| | a) Value of voltage, U ₂ measured using the instrument as per Fig. D.1 | EL 2125-09 | (See appended table 5.1.6) | P |
| | b) Measured touch current (mA): | EL 2125-10 | (See appended table 5.1.6) | P |
| | c) Calculated value of TOUCH CURRENT (mA) = U ₂ / 500 | EL 2125-11 | (See appended table 5.1.6) | P |
| | d) Measured protective conductor current(mA) | EL 2125-12 | Not protective conductor | N/A |
| | e) Max. protective conductor current =5% of Input current | EL 2125-13 | As above | N/A |
| 5.1.7 | Equipment with touch current exceeding 3.5 mA | EL 2125-14 | Touch current not exceeding 3.5mA | N/A |
| 5.1.7.1 | General | EL 2125-15 | As above | N/A |
| 5.1.7.2 | Simultaneous multiple connections to the supply | EL 2125-16 | As above | N/A |
| 5.1.8 | Touch currents to telecommunication networks and cable distribution systems and from telecommunication networks | EL 2125-17 | No TNV circuit | N/A |

TRF No. BIS_IT/PA_IS13252_V1.3 *Jt*

DELHI TEST HOUSE
 Plot No.50, Phase - IV, Sector-57
 HSIDC, Industrial Area
 Behind Panami Hospital, Kundli
 Sonapat-131028 (Haryana)
 Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parmami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 52 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

| | | | | |
|---------|--|------------|----------|-----|
| 5.1.8.1 | Limitation of the touch current to a telecommunication network or to a cable distribution system | EL 2125-18 | As above | N/A |
| | Supply voltage (V) | | As above | — |
| | Measured touch current (mA) | | As above | — |
| | Max. allowed touch current (mA) | | As above | — |
| 5.1.8.2 | Summation of touch currents from telecommunication networks | EL 2125-19 | As above | N/A |
| | a) EUT with earthed telecommunication ports : | | As above | N/A |
| | b) EUT whose telecommunication ports have no reference to protective earth | | As above | N/A |

*- Total number of Requirements to be observed / inspected = 05
Total No of applicable Requirement = 04
No of Requirements for which the sample passed = 04

Total number of tests to be conducted = 15
Total No of applicable Tests = 06
No. of tests for which the sample passed = 06

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

.....
(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parmami Hospital, Kundli
Sonipat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 53 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Insulating Properties

EL 2126 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|---|------------|---|---------|
| 5.2 | Electric strength* | EL 2126-00 | Electric strength test carried out on SWITCHING ADAPTER | P |
| 5.2.1 | General* | EL 2126-01 | In compliance | P |
| 5.2.2 | Test procedure | | (See appended table 5.2) | P |
| | a) The test voltages for electric strength for the appropriate grade of insulation [FUNCTIONAL INSULATION if required by 5.3.4 b), BASIC INSULATION, SUPPLEMENTARY INSULATION or REINFORCED INSULATION] are as specified in either: – Table 5B using the PEAK WORKING VOLTAGE (U), as determined in 2.10.2; or – Table 5C using the REQUIRED WITHSTAND VOLTAGE, as determined in G.4. | EL 2126-02 | Double/reinforced insulation considered, test conducted on primary circuit to secondary circuit & primary circuit to the body (See appended table 5.2) | P |

*- Total number of Requirements to be observed / inspected = 02
Total No of applicable Requirement = 02
No of Requirements for which the sample passed= 02

Total number of tests to be conducted = 01
Total No of applicable Tests = 01
No. of tests for which the sample passed= 01

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

.....
(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonapat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 54 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Insulating Properties

EL 2127 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|--|------------|--|---------|
| 5.3 | Abnormal operating and fault conditions | EL 2127-00 | In compliance | P |
| 5.3.1 | Protection against overload and abnormal operation | EL 2127-01 | (See appended table 5.3) | P |
| 5.3.2 | Motors | EL 2127-02 | No motors used | N/A |
| 5.3.3 | Transformers | EL 2127-03 | Adequate protection of transformer against overload (See Annex C) | P |
| 5.3.4 | Functional insulation: | EL 2127-04 | In compliance with 5.3.4 c) | P |
| 5.3.5 | Electromechanical components | EL 2127-05 | No such electromechanical components used | N/A |
| 5.3.6 | Audio amplifiers in ITE : | EL 2127-06 | No audio amplifiers used | N/A |
| 5.3.7 | Simulation of faults | EL 2127-07 | (See appended table 5.3) | P |
| 5.3.8 | Unattended equipment | EL 2127-08 | No unattended equipments | N/A |
| 5.3.9 | Compliance criteria for abnormal operating and fault conditions* | | (See appended table 5.3) | P |
| 5.3.9.1 | During the tests | EL 2127-09 | No flame observed in the equipment and no molten metal was emitted | P |
| 5.3.9.2 | After the tests | EL 2127-10 | Electric strength test made | P |

*- Total number of Requirements to be observed / inspected = 00
Total No of applicable Requirement = 00
No of Requirements for which the sample passed= 00

Total number of tests to be conducted = 11
Total No of applicable Tests = 07
No. of tests for which the sample passed= 07

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

.....
(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonapat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
 Telefax : 0130-2116529
 e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 55 of 113
 Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Communicating Connection

EL 2128 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|--|------------|--|---------|
| 6.1 | Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment | EL 2128-00 | No connections to telecommunication networks | N/A |
| 6.1.1 | Protection from hazardous voltages | EL 2128-01 | As above | N/A |
| 6.1.2 | Separation of the telecommunication network from earth* | | As above | N/A |
| 6.1.2.1 | <p>Requirements:</p> <ul style="list-style-type: none"> - Surge suppressors that bridge the insulation shall have a minimum rated operating voltage U_{op} of $U_{op} = U_{peak} + \Delta U_{sp} + \Delta U_{sa}$ <p>Where U_{peak} is 360V or 180V</p> <p>ΔU_{sp} is the maximum increase of the rated operating voltage due to variations in component production (If not specified by the manufacturer, shall be taken as 10% of the rated operating voltage of the component)</p> <p>ΔU_{sa} is the maximum increase of the rated operating voltage due to the component ageing over the expected life of the equipment (If not specified by the manufacturer, shall be taken as 10% of the rated operating voltage of the component)</p> <ul style="list-style-type: none"> - Insulation is subjected to electric strength test according to 5.2.2. The a.c test voltage is 1.5kV or 1.0kV - Components bridging the insulation that are left in place during electric strength testing shall not be damaged. There shall be no breakdown of insulation during electric strength testing.) | EL 2128-02 | As above | N/A |
| 6.1.2.2 | Exclusions | EL 2128-03 | As above | N/A |

TRF No. BIS_IT/PA_IS13252_V1.3 *JT*

DELHI TEST HOUSE
 Plot No.50, Phase - IV, Sector-57
 HSIDC, Industrial Area
 Behind Parnami Hospital, Kundli
 Sonapat-131028 (Haryana)
 Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 56 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

*- Total number of Requirements to be observed / inspected = 00
Total No of applicable Requirement = 00
No of Requirements for which the sample passed= 00

Total number of tests to be conducted = 04
Total No of applicable Tests = 00
No. of tests for which the sample passed= 00

Certificate: It is certified that the above tests were performed and found to be ~~passing~~/failing in the requirement tested.(These requirements/tests are not applicable).

.....
(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonipat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Pamami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 57 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Communicating Connection

EL 2129 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|--|------------|--|---------|
| 6.2 | Protection of equipment users from overvoltages on telecommunication networks* | EL 2129-00 | No connections to telecommunication networks | N/A |
| 6.2.1 | Separation requirements | EL 2129-01 | As above | N/A |
| 6.2.2 | Electric strength test procedure | EL 2129-02 | As above | N/A |
| 6.2.2.1 | Impulse test | EL 2129-03 | As above | N/A |
| 6.2.2.2 | Steady-state test | EL 2129-04 | As above | N/A |
| 6.2.2.3 | Compliance criteria | EL 2129-05 | As above | N/A |

*- Total number of Requirements to be observed / inspected = 01
Total No of applicable Requirement = 00
No of Requirements for which the sample passed= 00

Total number of tests to be conducted = 05
Total No of applicable Tests = 00
No. of tests for which the sample passed= 00

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested. (These requirements/tests are not applicable).

.....
(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Pamami Hospital, Kundli
Sonapat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 58 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Communicating Connection

EL 2130 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|---|------------|--|---------|
| 6.3 | Protection of the telecommunication wiring system from overheating | EL 2130-00 | No connections to telecommunication networks | N/A |
| | a) If current limiting is due to the inherent impedance of the power source, the output current into any resistive load, including a short-circuit, is measured. The current limit shall not be exceeded after 60 s of test. Max. output current (A) : | EL 2130-01 | As above | N/A |
| | b) If current limiting is provided by an overcurrent protective device having a specified time/current characteristic: – the time/current characteristic shall show that a current equal to 110 % of the current limit will be interrupted within 60 min; and | EL 2130-02 | As above | N/A |
| | c) the output current into any resistive load, including a short-circuit, with the overcurrent protective device bypassed, measured after 60 s of test, shall not exceed $1000/U$, where U is the output voltage measured in accordance with 1.4.5 with all load circuits disconnected. | EL 2130-03 | As above | N/A |

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonapat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parmami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 59 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

| | | | | |
|--|---|------------|----------|-----|
| | <p>d) If current limiting is provided by an overcurrent protective device that does not have a specified time/current characteristic:</p> <ul style="list-style-type: none"> – the output current into any resistive load, including a short-circuit, shall not exceed the current limit after 60 s of test; and – the output current into any resistive load, including a short-circuit, with the overcurrent protective device bypassed, measured after 60 s of test, shall not exceed $1000/U$, where U is the output voltage measured in accordance with 1.4.5 with all load circuits disconnected. | EL 2130-04 | As above | N/A |
|--|---|------------|----------|-----|

*- Total number of Requirements to be observed / inspected = 00
Total No of applicable Requirement = 00
No of Requirements for which the sample passed=00

Total number of tests to be conducted = 05
Total No of applicable Tests = 00
No. of tests for which the sample passed= 00

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested. (These requirements/tests are not applicable).

.....
(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parmami Hospital, Kundli
Sonapat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)

Telefax : 0130-2116529

e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 60 of 113

Dated: 17/07/2020

IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Connection to cable distribution system

EL 2131 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|---|------------|-----------------------------------|---------|
| 7 | Connection to cable distribution systems* | EL 2131-00 | No cable distribution system used | N/A |
| 7.1 | General requirements* | EL 2131-01 | As above | N/A |
| 7.2 | Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment | EL 2131-02 | As above | N/A |
| 7.3 | Protection of equipment users from overvoltages on the cable distribution system | EL 2131-03 | As above | N/A |
| 7.4 | Insulation between primary circuits and cable distribution systems | EL 2131-04 | As above | N/A |
| 7.4.1 | General | EL 2131-05 | As above | N/A |
| 7.4.2 | Voltage surge test | EL 2131-06 | As above | N/A |
| 7.4.3 | Impulse test | EL 2131-07 | As above | N/A |

*- Total number of Requirements to be observed / inspected = 02

Total No of applicable Requirement = 00

No of Requirements for which the sample passed= 00

Total number of tests to be conducted = 06

Total No of applicable Tests = 00

No. of tests for which the sample passed= 00

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.(These requirements/tests are not applicable).

.....
(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonapat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
 Telefax : 0130-2116529
 e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 61 of 113

Dated: 17/07/2020

IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Fire Safety

EL 2132 – V1.4

| Cl. No. | Test/ Requirement name | Test Code | Test result/ observation | Verdict |
|---------|--|------------|--|---------|
| A | ANNEX A, TESTS FOR RESISTANCE TO HEAT AND FIRE | EL 2132-00 | In compliance | P |
| A.1 | Flammability test for fire enclosures of movable equipment having a total mass exceeding 18 kg, and of stationary equipment (see 4.7.3.2) | EL 2132-01 | Equipment having a total mass not exceeding 18Kg | N/A |
| A.1.1 | Samples: | EL 2132-02 | As above | — |
| | Wall thickness (mm): | | As above | — |
| A.1.2 | Conditioning of samples; temperature (°C) : | EL 2132-03 | As above | N/A |
| A.1.3 | Mounting of samples : | EL 2132-04 | As above | N/A |
| A.1.4 | Test flame (see IEC 60695-11-3) | EL 2132-05 | As above | N/A |
| | Flame A, B, C or D : | | As above | — |
| A.1.5 | Test procedure | EL 2132-06 | As above | N/A |
| A.1.6 | Compliance criteria | EL 2132-07 | As above | N/A |
| | Sample 1 burning time (s): | | As above | — |
| | Sample 2 burning time (s): | | As above | — |
| | Sample 3 burning time (s): | | As above | — |
| A.2 | Flammability test for fire enclosures of movable equipment having a total mass not exceeding 18 kg, and for material and components located inside fire enclosures (see 4.7.3.2 and 4.7.3.4) | EL 2132-08 | Components and enclosure materials have adequate flammability classification (See appended table 1.5.1) | P |
| A.2.1 | Samples, material: | EL 2132-09 | As above | — |
| | Wall thickness (mm): | | As above | — |
| A.2.2 | Conditioning of samples; temperature (°C) : | EL 2132-10 | As above | N/A |
| A.2.3 | Mounting of samples : | EL 2132-11 | As above | N/A |
| A.2.4 | Test flame (see IEC 60695-11-4) | EL 2132-12 | As above | N/A |
| | Flame A, B or C : | | As above | — |

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
 Plot No.50, Phase - IV, Sector-57
 HSIDC, Industrial Area
 Behind Parnami Hospital, Kundli
 Sonapat-131028 (Haryana)
 Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parmami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 62 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Fire Safety

EL 2132 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|--|------------|--------------------------|---------|
| A.2.5 | Test procedure | EL 2132-13 | As above | N/A |
| A.2.6 | Compliance criteria | EL 2132-14 | As above | N/A |
| | Sample 1 burning time (s): | | As above | — |
| | Sample 2 burning time (s): | | As above | — |
| | Sample 3 burning time (s): | | As above | — |
| A.2.7 | Alternative test acc. to IEC 60695-11-5, cl. 5 and 9 | EL 2132-15 | As above | N/A |
| | Sample 1 burning time (s): | | As above | — |
| | Sample 2 burning time (s): | | As above | — |
| | Sample 3 burning time (s): | | As above | — |
| A.3 | Hot flaming oil test (see 4.6.2) | EL 2132-16 | As above | N/A |
| A.3.1 | Mounting of samples | EL 2132-17 | As above | N/A |
| A.3.2 | Test procedure | EL 2132-18 | As above | N/A |
| A.3.3 | Compliance criterion | EL 2132-19 | As above | N/A |

*- Total number of Requirements to be observed / inspected = 00
Total No of applicable Requirement = 00
No of Requirements for which the sample passed= 00

Total number of tests to be conducted = 20
Total No of applicable Tests = 02
No. of tests for which the sample passed= 02

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.


.....
(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parmami Hospital, Kundli
Sonapat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
 Telefax : 0130-2116529
 e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 63 of 113
 Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Insulating Properties

EL 2133 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|--|------------|--------------------------|---------|
| B | ANNEX B, MOTOR TESTS UNDER ABNORMAL CONDITIONS (see 4.7.2.2 and 5.3.2) | EL 2133-00 | No such motor used | N/A |
| B.1 | General requirements | EL 2133-01 | As above | N/A |
| | Position : | | As above | — |
| | Manufacturer : | | As above | — |
| | Type : | | As above | — |
| | Rated values : | | As above | — |
| B.2 | Test conditions | EL 2133-02 | As above | N/A |
| B.3 | Maximum temperatures | EL 2133-03 | As above | N/A |
| B.4 | Running overload test | EL 2133-04 | As above | N/A |
| B.5 | Locked-rotor overload test | EL 2133-05 | As above | N/A |
| | Test duration (days): | | As above | — |
| | Electric strength test: test voltage (V) : | | As above | — |
| B.6 | Running overload test for d.c. motors in secondary circuits | EL 2133-06 | As above | N/A |
| B.6.1 | General | EL 2133-07 | As above | N/A |
| B.6.2 | Test procedure | EL 2133-08 | As above | N/A |
| B.6.3 | Alternative test procedure | EL 2133-09 | As above | N/A |
| B.6.4 | Electric strength test; test voltage (V) : | EL 2133-10 | As above | N/A |
| B.7 | Locked-rotor overload test for d.c. motors in secondary circuits | EL 2133-11 | As above | N/A |
| B.7.1 | General | EL 2133-12 | As above | N/A |
| B.7.2 | Test procedure | EL 2133-13 | As above | N/A |
| B.7.3 | Alternative test procedure | EL 2133-14 | As above | N/A |
| B.7.4 | Electric strength test; test voltage (V) : | EL 2133-15 | As above | N/A |
| B.8 | Test for motors with capacitors | EL 2133-16 | As above | N/A |
| B.9 | Test for three-phase motors | EL 2133-17 | As above | N/A |
| B.10 | Test for series motors | EL 2133-18 | As above | N/A |

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
 Plot No.50, Phase - IV, Sector-57
 HSIDC, Industrial Area
 Behind Parnami Hospital, Kundli
 Sonapat-131028 (Haryana)
 Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 64 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Insulating Properties

EL 2133 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|-------------------------|-----------|--------------------------|---------|
| | Operating voltage (V) : | | As above | — |

*- Total number of Requirements to be observed / inspected = 00
Total No of applicable Requirement = 00
No of Requirements for which the sample passed= 00

Total number of tests to be conducted = 19
Total No of applicable Tests = 00
No. of tests for which the sample passed= 00

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested. (These requirements/tests are not applicable)

.....
(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonipat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 65 of 113

Dated: 17/07/2020

IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Electrical Safety

EL 2134 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|---|------------|--|---------|
| C | ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)* | EL 2134-00 | See below | P |
| | Position : | | Transformer is a part of SWITCHING ADAPTER | — |
| | Manufacturer : | | (See appended table 1.5.1) | — |
| | Type : | | (See appended table 1.5.1) | — |
| | Rated values : | | (See appended table 1.5.1) | — |
| | Method of protection: | | Protection by inherent or external impedance | — |
| C.1 | Overload test | EL 2134-01 | Carried out (See appended table 5.3) | P |
| C.2 | Insulation | EL 2134-02 | (See appended table 5.3 and C.2) | P |
| | Protection from displacement of windings: | | Magnet wire, TIW and wrapping used around soldering pins | P |

*- Total number of Requirements to be observed / inspected = 01

Total No of applicable Requirement = 01

No of Requirements for which the sample passed= 01

Total number of tests to be conducted = 02

Total No of applicable Tests = 02

No. of tests for which the sample passed= 02

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

.....
(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonapat -131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 66 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Insulating Properties

EL 2135 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|--|------------|--|---------|
| D | ANNEX D, MEASURING INSTRUMENTS FOR TOUCH-CURRENT TESTS (see 5.1.4) | EL 2135-00 | See below | P |
| D.1 | Measuring instrument | EL 2135-01 | Measuring instrument for touch current as per ANNEX D used | P |
| D.2 | Alternative measuring instrument | EL 2135-02 | Alternative measuring instrument not used | N/A |

*- Total number of Requirements to be observed / inspected = 00
Total No of applicable Requirement = 00
No of Requirements for which the sample passed= 00

Total number of tests to be conducted = 03
Total No of applicable Tests = 02
No. of tests for which the sample passed= 02

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonipat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 67 of 113

Dated: 17/07/2020

IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Thermal Properties

EL 2136– V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|---|-----------|---------------------------|---------|
| E | ANNEX E, TEMPERATURE RISE OF A WINDING (see 1.4.13) | EL2136-00 | No such construction used | N/A |

*- Total number of Requirements to be observed / inspected = 00

Total No of applicable Requirement = 00

No of Requirements for which the sample passed= 00

Total number of tests to be conducted = 01

Total No of applicable Tests = 00

No. of tests for which the sample passed=00

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested. (These requirements/tests are not applicable)

.....
(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonapat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parmani Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 68 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Electrical Safety

EL 2137 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|--|-----------|--------------------------|---------|
| F | ANNEX F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES (see 2.10 and Annex G) | EL2137-00 | In compliance | P |

*- Total number of Requirements to be observed / inspected = 00
Total No of applicable Requirement = 00
No of Requirements for which the sample passed= 00

Total number of tests to be conducted = 01
Total No of applicable Tests = 01
No. of tests for which the sample passed= 01

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

.....
(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parmani Hospital, Kundli
Sonipat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Pamami Hospital, Kundli, Sonapat-131028 (Haryana)

Telefax : 0130-2116529

e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR -- TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 69 of 113

Dated: 17/07/2020

IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Electrical safety

EL 2138 - V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|--|------------|--|---------|
| G | ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES | EL 2138-00 | ANNEX F used for determining minimum clearance | N/A |
| G.1 | Clearances | EL 2138-01 | As above | N/A |
| G.1.1 | General | EL 2138-02 | As above | N/A |
| G.1.2 | Summary of the procedure for determining minimum clearances | EL 2138-03 | As above | N/A |
| G.2 | Determination of mains transient voltage (V) | EL 2138-04 | As above | N/A |
| G.2.1 | AC Mains supply | EL 2138-05 | As above | N/A |
| G.2.2 | Earthed d.c. mains supplies | EL 2138-06 | As above | N/A |
| G.2.3 | Unearthed d.c. mains supplies | EL 2138-07 | As above | N/A |
| G.2.4 | Battery operation | EL 2138-08 | As above | N/A |
| G.3 | Determination of telecommunication network transient voltage (V) | EL 2138-09 | As above | N/A |
| G.4 | Determination of required withstand voltage (V) | EL 2138-10 | As above | N/A |
| G.4.1 | Mains transients and internal repetitive peaks | EL 2138-11 | As above | N/A |
| G.4.2 | Transients from telecommunication networks: | EL 2138-12 | As above | N/A |
| G.4.3 | Combination of transients | EL 2138-13 | As above | N/A |
| G.4.4 | Transients from cable distribution systems | EL 2138-14 | As above | N/A |
| G.5 | Measurement of transient voltages (V) | EL 2138-15 | As above | N/A |
| | a) Transients from a mains supply | | As above | N/A |
| | For an a.c. mains supply | | As above | N/A |
| | For a d.c. mains supply | | As above | N/A |
| | b) Transients from a telecommunication network | | As above | N/A |
| G.6 | Determination of minimum clearances | EL 2138-16 | As above | N/A |

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE

Plot No.50, Phase - IV, Sector-57

HSIDC, Industrial Area

Echind Pamami Hospital, Kundli

Sonapat-131028 (Haryana)

Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)

Telefax : 0130-2116529

e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 70 of 113

Dated: 17/07/2020

IEC 60950-1: 2005 + A1:2009 + A2 : 2013

*- Total number of Requirements to be observed / inspected = 00
Total No of applicable Requirement = 00
No of Requirements for which the sample passed= 00

Total number of tests to be conducted = 17
Total No of applicable Tests = 00
No. of tests for which the sample passed= 00

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested. (These requirements/tests are not applicable)

.....
(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonapat-131028 (Haryana)
Telefax: 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 71 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Radiation Safety

EL 2139 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|--|------------|----------------------------------|---------|
| H | ANNEX H, IONIZING RADIATION (see 4.3.13) | EL 2139-00 | ionizing radiation not generated | N/A |

*- Total number of Requirements to be observed / inspected = 00
Total No of applicable Requirement = 00
No of Requirements for which the sample passed= 00

Total number of tests to be conducted = 01
Total No of applicable Tests = 00
No. of tests for which the sample passed= 00

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested. (These requirements/tests are not applicable)

.....
(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonipat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 72 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Electrical Safety

EL 2140 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|---|------------|---|---------|
| J | ANNEX J, TABLE OF ELECTROCHEMICAL POTENTIALS (see 2.6.5.6)* | EL 2140-00 | No protective earthing and bonding conductor used | N/A |
| | Metal(s) used : | | As above | — |

*- Total number of Requirements to be observed / inspected = 01
Total No of applicable Requirement = 00
No of Requirements for which the sample passed=00

Total number of tests to be conducted = 00
Total No of applicable Tests = 00
No. of tests for which the sample passed= 00

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested. (These requirements/tests are not applicable)

(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonipat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 73 of 113

Dated: 17/07/2020

IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to General Requirement

EL 2141 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|--|------------|--------------------------|---------|
| K | ANNEX K, THERMAL CONTROLS (see 1.5.3 and 5.3.8)* | EL 2141-00 | No thermal controls used | N/A |
| K.1 | Making and breaking capacity | EL 2141-01 | As above | N/A |
| K.2 | Thermostat reliability; operating voltage (V) : | EL 2141-02 | As above | N/A |
| K.3 | Thermostat endurance test; operating voltage (V) : | EL 2141-03 | As above | N/A |
| K.4 | Temperature limiter endurance; operating voltage (V) : | EL 2141-04 | As above | N/A |
| K.5 | Thermal cut-out reliability | EL 2141-05 | As above | N/A |
| K.6 | Stability of operation | EL 2141-06 | As above | N/A |

*- Total number of Requirements to be observed / inspected = 01

Total No of applicable Requirement = 00

No of Requirements for which the sample passed= 00

Total number of tests to be conducted = 06

Total No of applicable Tests = 00

No. of tests for which the sample passed= 00

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested. (These requirements/tests are not applicable)

.....
(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonapat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 74 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to General Requirement

EL 2142 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|--|------------|--|---------|
| L | ANNEX L, NORMAL LOAD CONDITIONS FOR SOME TYPES OF ELECTRICAL BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.2)* | EL 2142-00 | In compliance | P |
| L.1 | Typewriters* | EL 2142-01 | See L.7 | N/A |
| L.2 | Adding machines and cash registers* | EL 2142-02 | As above | N/A |
| L.3 | Erasers* | EL 2142-03 | As above | N/A |
| L.4 | Pencil sharpeners* | EL 2142-04 | As above | N/A |
| L.5 | Duplicators and copy machines* | EL 2142-05 | As above | N/A |
| L.6 | Motor-operated files* | EL 2142-06 | As above | N/A |
| L.7 | Other business equipment* | EL 2142-07 | Maximum normal load applied on SWITCHING ADAPTER | P |

*- Total number of Requirements to be observed / inspected = 08
Total No of applicable Requirement = 02
No of Requirements for which the sample passed= 02

Total number of tests to be conducted = 00
Total No of applicable Tests = 00
No. of tests for which the sample passed= 00

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonapat-131028 (Haryana)
Telefax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Panami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 75 of 113

Dated: 17/07/2020

IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Electrical Safety

EL 2143 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|---|------------|--------------------------|---------|
| M | ANNEX M, CRITERIA FOR TELEPHONE RINGING SIGNALS (see 2.3.1) | EL 2143-00 | No TNV circuits used | N/A |
| M.1 | Introduction* | EL 2143-01 | As above | N/A |
| M.2 | Method A | EL 2143-02 | As above | N/A |
| M.3 | Method B | EL 2143-03 | As above | N/A |
| M.3.1 | Ringling signal | EL 2143-04 | As above | N/A |
| M.3.1.1 | Frequency (Hz) | EL 2143-05 | As above | --- |
| M.3.1.2 | Voltage (V) | EL 2143-06 | As above | --- |
| M.3.1.3 | Cadence; time (s), voltage (V) | EL 2143-07 | As above | --- |
| M.3.1.4 | Single fault current (mA) | EL 2143-08 | As above | --- |
| M.3.2 | Tripping device and monitoring voltage | EL 2143-09 | As above | N/A |
| M.3.2.1 | Conditions for use of a tripping device or a monitoring voltage | EL 2143-10 | As above | N/A |
| M.3.2.2 | Tripping device | EL 2143-11 | As above | N/A |
| M.3.2.3 | Monitoring voltage (V) | EL 2143-12 | As above | N/A |

*- Total number of Requirements to be observed / inspected = 01
 Total No of applicable Requirement = 00
 No of Requirements for which the sample passed= 00

Total number of tests to be conducted =12
 Total No of applicable Tests = 00
 No. of tests for which the sample passed= 00

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested. (These requirements/tests are not applicable)

.....
 (Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
 Plot No.50, Phase - IV, Sector-57
 HSIDC, Industrial Area
 Behind Panami Hospital, Kundli
 Soni, -131028 (Haryana)
 Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Pamami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 76 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Electrical safety

EL 2144 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|---|------------|---|---------|
| N | ANNEX N, IMPULSE TEST GENERATORS (see 1.5.7.2, 1.5.7.3, 2.10.3.9, 6.2.2.1, 7.3.2, 7.4.3 and Clause G.5) | EL 2144-00 | No connections to telecommunication networks and cable distribution system used | N/A |
| N.1 | ITU-T impulse test generators | EL 2144-01 | As above | N/A |
| N.2 | IEC 60065 impulse test generator | EL 2144-02 | As above | N/A |

*- Total number of Requirements to be observed / inspected = 00
Total No of applicable Requirement = 00
No of Requirements for which the sample passed= 00

Total number of tests to be conducted = 03
Total No of applicable Tests = 00
No. of tests for which the sample passed= 00

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested. (These requirements/tests are not applicable)

(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Pamami Hospital, Kundli
Sonapat-131028 (Haryana)
Tel. no: 0130-2116529



DELHI TEST HOUSETM

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 77 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to General Requirements

EL 2145– V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|--------------------------------|------------|--------------------------|---------|
| P | Annex P, NORMATIVE REFERENCES* | EL 2145-00 | Considered | P |

*- Total number of Requirements to be observed / inspected = 01
Total No of applicable Requirement = 01
No of Requirements for which the sample passed= 01

Total number of tests to be conducted = 00
Total No of applicable Tests = 00
No. of tests for which the sample passed= 00

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

.....
(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonipat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 78 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to General Requirements

EL 2146 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|--|------------|--------------------------|---------|
| Q | ANNEX Q, Voltage dependent resistors (VDRs) (see 1.5.9.1) | EL 2146-00 | No such VDRs used | N/A |
| | A VDR shall comply with iec 61051-2, whether a fire enclosure is provided or not, taking into account all of the following: | | As above | N/A |
| | a) Preferred climatic categories Lower category temperature: -10°C Upper category temperature: +85°C Duration of damp Test, steady state test:21 days | | As above | N/A |
| | b) Maximum continuous voltage: Atleast 1,25 times the rated voltage of the equipment or Atleast 1,25 times the upper voltage of the rated voltage range | | As above | N/A |
| | c) Combined pulse : | EL 2146-01 | As above | N/A |
| | d) Body of the VDR shall comply with Needle flame test according to IEC 60695-11-5 with the following test severities: duration of application of the test flame: 10 s after flame time: 5s [This test is not required if VDR complies with V-1 CLASS MATERIAL] | EL 2146-02 | As above | N/A |

*- Total number of Requirements to be observed / inspected = 00

Total No of applicable Requirement = 00

No of Requirements for which the sample passed= 00

Total number of tests to be conducted = 03

Total No of applicable Tests = 00

No. of tests for which the sample passed= 00

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirements tested. (These requirements/tests are not applicable)

.....
(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonipat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 79 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to General Requirement

EL 2147– V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|--|------------|-----------------------------|---------|
| R | ANNEX R, EXAMPLES OF REQUIREMENTS FOR QUALITY CONTROL PROGRAMMES* | EL 2147-00 | See below | N/A |
| R.1 | Minimum separation distances for unpopulated coated printed boards (see 2.10.6.2)* | EL 2147-01 | Uncoated printed board used | N/A |
| R.2 | Reduced clearances (see 2.10.3)* | EL 2147-02 | As above | N/A |

*- Total number of Requirements to be observed / inspected = 03
Total No of applicable Requirement = 00
No of Requirements for which the sample passed= 00

Total number of tests to be conducted = 00
Total No of applicable Tests = 00
No. of tests for which the sample passed= 00

Certificate: It is certified that the above tests were performed and found to be ~~passing~~/failing in the requirement tested. (These requirements/tests are not applicable)

.....
(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonipat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)

Telefax : 0130-2116529

e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 80 of 113

Dated: 17/07/2020

IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to General Requirement

EL 2148 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|---|------------|---|---------|
| S | ANNEX S, PROCEDURE FOR IMPULSE TESTING (see 6.2.2.3)* | EL 2148-00 | No connections to telecommunication networks and cable distribution system used | N/A |
| S.1 | Test equipment* | EL 2148-01 | As above | N/A |
| S.2 | Test procedure* | EL 2148-02 | As above | N/A |
| S.3 | Examples of waveforms during impulse testing* | EL 2148-03 | As above | N/A |

*- Total number of Requirements to be observed / inspected = 04

Total No of applicable Requirement = 00

No of Requirements for which the sample passed= 00

Total number of tests to be conducted = 00

Total No of applicable Tests = 00

No. of tests for which the sample passed= 00

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested. (These requirements/tests are not applicable)

(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonapat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSETM

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 81 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Protection against Ingress of water

EL 2149 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|---|------------|---|---------|
| T | ANNEX T, GUIDANCE ON PROTECTION AGAINST INGRESS OF WATER (see 1.1.2)* | EL 2149-00 | Category IPX0 considered. No further test required | N/A |

*- Total number of Requirements to be observed / inspected = 01

Total No of applicable Requirement = 00

No of Requirements for which the sample passed= 00

Total number of tests to be conducted = 00

Total No of applicable Tests = 00

No. of tests for which the sample passed= 00

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested. (These requirements/tests are not applicable)

(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonapat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
 Telefax : 0130-2116529
 e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 82 of 113
 Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Wiring

EL 2150 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|-----------|--|-----------|--|---------|
| U | ANNEX U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION (see 2.10.5.4) | EL2150-00 | Safety certified triple insulated wire used, no further test required (See appended table 1.5.1) | N/A |
| U.1 | GENERAL | EL2150-01 | As above | N/A |
| U.2 | TYPE TESTS | EL2150-02 | As above | N/A |
| U.2.1 | GENERAL | EL2150-03 | As above | N/A |
| U.2.2 | ELECTRIC STRENGTH | EL2150-04 | As above | N/A |
| U.2.2.1 | SOLID ROUND WINDING WIRE AND STRANDED WINDING WIRES | EL2150-05 | As above | N/A |
| U.2.2.1.1 | WIRES WITH NOMINAL CONDUCTOR DIAMETER UPTO AND INCLUDING 0.100MM | EL2150-06 | As above | N/A |
| U.2.2.1.2 | WIRES WITH NOMINAL CONDUCTOR DIAMETER OVER 0.100MM AND INCLUDING 2.500MM | EL2150-07 | As above | N/A |
| U.2.2.1.3 | WIRES WITH NOMINAL CONDUCTOR DIAMETER OVER 2.500MM | EL2150-08 | As above | N/A |
| U.2.2.2 | SQUARE OR RECTANGULAR WIRES | EL2150-09 | As above | N/A |
| U.2.3 | FLEXIBILITY AND ADHERENCE | EL2150-10 | As above | N/A |
| U.2.4 | HEAT SHOCK | EL2150-11 | As above | N/A |
| U.2.5 | RETENTION OF ELECTRIC STRENGTH AFTER BENDING | EL2150-12 | As above | N/A |
| U.3 | TESTING DURING MANUFACTURING | EL2150-13 | As above | N/A |
| U.3.1 | GENERAL | EL2150-14 | As above | N/A |
| U.3.2 | ROUTINE TESTS | EL2150-15 | As above | N/A |
| U.3.3 | SAMPLING TEST | EL2150-16 | As above | N/A |

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
 Plot No.50, Phase - IV, Sector-57
 HSIDC, Industrial Area
 Behind Parnami Hospital, Kundli
 Sonipat-131028 (Haryana)
 Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 83 of 113

Dated: 17/07/2020

IEC 60950-1: 2005 + A1:2009 + A2 : 2013

*- Total number of Requirements to be observed / inspected = 00
Total No of applicable Requirement = 00
No of Requirements for which the sample passed= 00

Total number of tests to be conducted = 17
Total No of applicable Tests = 00
No. of tests for which the sample passed= 00

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested. (These requirements/tests are not applicable)

.....
(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonapat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 84 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Electrical Safety

EL 2151 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|--|------------|------------------------------|---------|
| V | ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1) * | EL 2151-00 | Considered | P |
| V.1 | Introduction* | EL 2151-01 | See below | P |
| V.2 | TN power distribution systems | EL 2151-02 | TN power distribution system | P |
| V.3 | TT Power Distribution systems | EL 2151-03 | As above | N/A |
| V.4 | IT Power Distribution systems | EL 2151-04 | As above | N/A |

*- Total number of Requirements to be observed / inspected = 02
Total No of applicable Requirement = 02
No of Requirements for which the sample passed= 02

Total number of tests to be conducted = 03
Total No of applicable Tests = 01
No. of tests for which the sample passed= 01

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

.....
(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonipat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSETM

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Pamami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 85 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Electrical Safety

EL 2152 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|---|------------|--------------------------|---------|
| W | ANNEX W, SUMMATION OF TOUCH CURRENTS * | EL 2152-00 | No TNV circuit used | N/A |
| W.1 | Touch current from electronic circuits* | EL 2152-01 | As above | N/A |
| W.1.1 | Floating circuits* | EL 2152-02 | As above | N/A |
| W.1.2 | Earthed circuits* | EL 2152-03 | As above | N/A |
| W.2 | Interconnection of several equipments* | EL 2152-04 | As above | N/A |
| W.2.1 | Isolation* | EL 2152-05 | As above | N/A |
| W.2.2 | Common return, isolated from earth* | EL 2152-06 | As above | N/A |
| W.2.3 | Common return, connected to protective earth* | EL 2152-07 | As above | N/A |

*- Total number of Requirements to be observed / inspected = 08
Total No of applicable Requirement = 00
No of Requirements for which the sample passed= 00

Total number of tests to be conducted = 00
Total No of applicable Tests = 00
No. of tests for which the sample passed=00

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested. (These requirements/tests are not applicable)

.....
(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Pamami Hospital, Kundli
Sonapat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 86 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Electrical Safety

EL 2153– V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|--|------------|--------------------------------|---------|
| X | ANNEX X, MAXIMUM HEATING EFFECT IN TRANSFORMER TESTS (see clause C.1)* | EL 2153-00 | In compliance | P |
| X.1 | Determination of maximum input current* | EL 2153-01 | Maximum Input current :0.28A | P |
| X.2 | Overload test procedure* | EL 2153-02 | Overcurrent electronic circuit | P |

*- Total number of Requirements to be observed / inspected = 03
Total No of applicable Requirement = 03
No of Requirements for which the sample passed= 03

Total number of tests to be conducted = 00
Total No of applicable Tests = 00
No. of tests for which the sample passed= 00

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested

.....
(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

JH

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonapat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSETM

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 87 of 113

Dated: 17/07/2020

IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Radiation Safety

EL 2154– V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|---|------------|---|---------|
| Y | ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING TEST (see 4.3.13.3) | EL 2154-00 | Ultraviolet (UV) radiation not produced | N/A |
| Y.1 | Test apparatus | EL 2154-01 | As above | N/A |
| Y.2 | Mounting of test samples | EL 2154-02 | As above | N/A |
| Y.3 | Carbon-arc light-exposure apparatus | EL 2154-03 | As above | N/A |
| Y.4 | Xenon-arc light exposure apparatus | EL 2154-04 | As above | N/A |

*- Total number of Requirements to be observed / inspected = 00

Total No of applicable Requirement = 00

No of Requirements for which the sample passed= 00

Total number of tests to be conducted = 05

Total No of applicable Tests = 00

No. of tests for which the sample passed= 00

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested. (These requirements/tests are not applicable)

.....
(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonapat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 88 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Electrical Safety

EL 2155– V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|--|------------|--------------------------|---------|
| Z | ANNEX Z, OVERVOLTAGE CATEGORIES (see 2.10.3.2 and Clause G.2)* | EL 2155-00 | OVC II (2500V peak) | P |

*- Total number of Requirements to be observed / inspected = 01

Total No of applicable Requirement = 01

No of Requirements for which the sample passed= 01

Total number of tests to be conducted = 00

Total No of applicable Tests = 00

No. of tests for which the sample passed= 00

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonapat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSETM

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Pamami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 89 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Mechanical Properties

EL 2156 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|--|------------|--|---------|
| AA | ANNEX AA, MANDREL TEST (see 2.10.5.8) | EL 2156-00 | Non-separable thin sheet material not used | N/A |

*- Total number of Requirements to be observed / inspected = 00

Total No of applicable Requirement = 00

No of Requirements for which the sample passed= 00

Total number of tests to be conducted = 01

Total No of applicable Tests = 00

No. of tests for which the sample passed= 00

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested. (These requirements/tests are not applicable)


.....
(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Pamami Hospital, Kundli
Sonipat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)

Telefax : 0130-2116529

e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 90 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Electrical Safety

EL 2158 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|---|------------|---------------------------|---------|
| CC | Evaluation of integrated circuit (IC) current limiters* | EL 2158-00 | No such construction used | N/A |
| CC.1 | Integrated circuit (IC) current limiters* | EL 2158-01 | As above | N/A |
| CC.2 | Test program 1 | EL 2158-02 | As above | N/A |
| CC.3 | Test program 2 | EL 2158-03 | As above | N/A |
| CC.4 | Test program 3 | EL 2158-04 | As above | N/A |
| CC.5 | Compliance | EL 2158-05 | As above | N/A |

*- Total number of Requirements to be observed / inspected = 02

Total No of applicable Requirement = 00

No of Requirements for which the sample passed= 00

Total number of tests to be conducted = 04

Total No of applicable Tests = 00

No. of tests for which the sample passed= 00

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested. (These requirements/tests are not applicable)

.....
(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
Sonapat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Pamami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 91 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Mechanical Properties

EL 2159 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|--|------------|------------------------------------|---------|
| DD | Requirements for the mounting means of rack-mounted equipment* | EL 2159-00 | EUT is not rack-mounting equipment | N/A |
| DD.1 | General | | As above | N/A |
| DD.2 | Mechanical strength test, variable N.....: | EL 2159-01 | As above | N/A |
| DD.3 | Mechanical strength test, 250N, including end stops.....: | EL 2159-02 | As above | N/A |
| DD.4 | Compliance*.....: | EL 2159-03 | As above | N/A |

*- Total number of Requirements to be observed / inspected = 02
Total No of applicable Requirement = 00
No of Requirements for which the sample passed= 00

Total number of tests to be conducted = 02
Total No of applicable Tests = 00
No. of tests for which the sample passed= 00

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested. (These requirements/tests are not applicable)

.....
(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Pamami Hospital, Kundli
Sonapat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parmami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 92 of 113
Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Tests relating to Mechanical Properties

EL 2160 – V1.4

| Cl. No. | Test / Requirement name | Test Code | Test result/ observation | Verdict |
|---------|--|------------|---------------------------|---------|
| EE | ANNEX EE, Household and home/office document/media shredders | EL 2160-00 | No such construction used | N/A |
| EE.1 | General | | As above | N/A |
| EE.2 | Markings and instructions* | EL 2160-01 | As above | N/A |
| | Use of markings or symbols* | | As above | N/A |
| | Information of user instructions, maintenance and/or servicing instructions* | | As above | N/A |
| EE.3 | Inadvertent reactivation test | EL 2160-02 | As above | N/A |
| EE.4 | Disconnection of power to hazardous moving parts* | EL 2160-03 | As above | N/A |
| | Use of markings or symbols* | | As above | N/A |
| EE.5 | Protection against hazardous moving parts | | As above | N/A |
| | Test with test finger (Figure 2A) | EL 2160-04 | As above | N/A |
| | Test with wedge probe (Figure EE1 and EE2) | EL 2160-05 | As above | N/A |

*- Total number of Requirements to be observed / inspected = 02

Total No of applicable Requirement = 00

No of Requirements for which the sample passed=00

Total number of tests to be conducted = 04

Total No of applicable Tests = 00

No. of tests for which the sample passed=00

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested. (These requirements/tests are not applicable)

.....
(Approving Authority)

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parmami Hospital, Kundli
Sonapat - 131028 (Haryana)
Telefax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
 Telefax : 0130-2116529
 e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 93 of 113
 Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

| 1.5.1 | TABLE: List of components | | | | | P |
|--------------------|--------------------------------------|--------------------|---|------------------------|-----------------------|---|
| Object/part no. | Manufacturer/trademark | Type/model | Technical data | Standard | Mark(s) of conformity | |
| Enclosure Material | SABIC JAPAN L L C | N1250 (f1) | V-0, 105°C. min. thickness: 1.5mm | UL 94, IEC 60695-11 | UL E207780 | |
| (Alternate) | SABIC JAPAN L L C | 925U (GG) | Min thickness 1.5mm,V-0, 115°C | UL 94, IEC 60695-11 | UL E207780 | |
| (Alternate) | SABIC JAPAN L L C | 945 (GG) | Min thickness 1.5mm,V-0, 120°C | UL 94, IEC 60695-11 | UL E207780 | |
| (Alternate) | ASAHI KASEI CORPORATION | 540Z (f1)(c) | Min thickness 1.5mm,V-0, 105°C | UL 94, IEC 60695-11 | UL E82268 | |
| (Alternate) | COVESTRO DEUTSCHLAND AG [PC RESINS] | FR6005 + (z), | Min thickness 1.5mm,V-0, 105°C | UL 94, IEC 60695-11 | UL E41613 | |
| PCB | CHIAN YOU CO LTD | 02V0-1 | 130°C,V-0 | UL 94, IEC 60695-11 | UL E112804 | |
| (Alternate) | SHENZHEN JINSHIJIE ELECTRONIC CO LTD | JSJ-1, JSJ-3 | 130°C,V-0 | UL 94, IEC 60695-11 | UL E503720 | |
| (Alternate) | WING SHING ELECTRONIC & PCB LTD | YS-1B, YS-2C, YS-3 | 130°C,V-0 | UL 94, IEC 60695-11 | UL E190407 | |
| (Alternate) | WING SHING ELECTRONIC & PCB LTD | YS-2A, | 105°C,V-0 | UL 94, IEC 60695-11 | UL E190407 | |
| (Alternate) | CHIAN YOU CO LTD | 03V0, 12V0 | 130°C,V-0 | UL 94, IEC 60695-11 | UL E112804 | |
| (Alternate) | GROW FAST DEVELOPMENT LTD | A2, A3, A4, A5 | 130°C,V-0 | UL 94, IEC 60695-11 | UL E305467 | |
| (Alternate) | SHYE FENG (DONGGUAN) CO LTD | 66V0, 99V0, 990V0 | 130°C,V-0 | UL 94, IEC 60695-11 | UL E466059 | |
| (Alternate) | JIA HE ELECTRONIC LTD | D1, D3, B, B1 | 130°C,V-0 | UL 94, IEC 60695-11 | UL E187621 | |

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
 Plot No.50, Phase - IV, Sector-57
 HSIDC, Industrial Area
 Behind Parnami Hospital, Kundli
 Sonapat-131028 (Haryana)
 Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Panami Hospital, Kundli, Sonapat-131028 (Haryana)
 Telefax : 0130-2116529
 e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 94 of 113
 Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

| | | | | | |
|--|---|---------------|---|---|--------------------------|
| Fusible resistor (RF1) (alternative between 10Ω/2W and 3.3Ω/2W) | ANHUI CHANGSHENG ELECTRONICS CO LTD | FRT-1/2W | 3.3Ω,2W | UL 248-1 No equivalent IEC standard available | UL E306095 |
| (Alternate) | ANHUI CHANGSHENG ELECTRONICS CO LTD | FRT-1/2W | 10Ω,2W | UL 248-1 No equivalent IEC standard available | UL E306095 |
| (Alternate) | ANHUI CHANGSHENG ELECTRONICS CO LTD | RXF-1/2W | 3.3Ω,2W, 10Ω,2W | UL 248-1 No equivalent IEC standard available | UL E306095 |
| (Alternate) | TZAI YUAN ENTERPRISE CO LTD | KNF1/2WS | 3.3Ω,2W; 10Ω,2W | UL 248-1 No equivalent IEC standard available | UL E355632 |
| (Alternate) | SHENZHEN GREAT ELECTRONICS CO LTD | RXF-2W Series | 3.3Ω,2W; 10Ω,2W | UL 248-1 No equivalent IEC standard available | UL E301541 |
| Primary lead wire | GUANGDONG DONGJU WIRE & CABLE CO LTD | 1007 | Min. 80°C, Min. 24AWG, VW-1, 300V | UL 758 No equivalent IEC standard available | UL E189674 |
| (Alternate) | CHIANG YU ENTERPRISE INC | 1007 | Min. 80°C, Min. 24AWG, VW-1, 300V | UL 758 No equivalent IEC standard available | UL E205596 |
| (Alternate) | WONDERFUL HI- TECH CO LTD | 1007 | Min. 80°C, Min. 24AWG, VW-1, 300V | UL 758 No equivalent IEC standard available | UL E77981 |
| Line choke (L1) | Dee Van | 30D001225-00H | Min. 1.0mH, 130°C | IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / IEC 60950-1: 2005 + A1:2009 + A2 : 2013 | Tested with equipment |
| Y-Capacitor (CY1) | Yinan Don's Electronic Component Co., Ltd. | CT81 | Max. 1000pF, min. 250Vac, 25/125/21/C, Y1 type | IEC/EN 60384-14 | VDE 135256 |
| (Alternate) | TDK Corporation | CD | Max. 1000pF, min. 250Vac, 25/125/56/C, Y1 type | IEC/EN 60384-14 | VDE 40029780 |

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
 Plot No.50, Phase - IV, Sector-57
 HSIDC, Industrial Area
 Behind Panami Hospital, Kundli
 Sonipat-131028 (Haryana)
 Tele-fax : 0130-2116529



TM

DELHI TEST HOUSE

Plot No. 50 Phase - IV Sector 57, HSIDC Industrial Area, Behind Parnam Hospital, Kundli, Sonapat-131028 (Haryana)
 Tel:fax : 0130-2116529
 e-mail: kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 95 of 113

Dated: 17/07/2020

IEC 60950-1: 2005 + A1:2009 + A2 : 2013

| | | | | | |
|-------------|---|-----------|--|-----------------|--------------|
| (Alternate) | Success Electronics Co., Ltd. | SE | Max. 1000pF, 250Vac, 30/125/56/C, Y1 type. | IEC/EN 60384-14 | VDE 122995 |
| (Alternate) | Success Electronics Co., Ltd. | SB | Max. 1000pF, 250Vac, 30/125/56/C, Y1 type. | IEC/EN 60384-14 | VDE 40037221 |
| (Alternate) | Murata Mfg. Co., Ltd. | KX | Max. 1000pF, min. 250Vac, 25/125/21/C, Y1 type | IEC/EN 60384-14 | VDE 40002831 |
| (Alternate) | Welson Industrial Co., Ltd. | WD | Max. 1000pF, min. 250Vac, 25/125/21/C, Y1 type | IEC/EN 60384-14 | VDE 40016157 |
| (Alternate) | Samwha Capacitor Co., Ltd. | SD | Max. 1000pF, min. 250Vac, 25/125/21/C, Y1 type | IEC/EN 60384-14 | VDE 40015804 |
| (Alternate) | Nanjing Yuyue Electronics Co., Ltd. | CT 7 | Max. 1000pF, min. 250Vac, 25/125/21/C, Y1 type | IEC/EN 60384-14 | VDE 40008010 |
| (Alternate) | JYH HSU (JEC) ELECTRONICS LTD | JD | Max. 1000pF, min. 250Vac, 25/125/21/C, Y1 type | IEC/EN 60384-14 | VDE 40038642 |
| (Alternate) | Dongguan Easy-gather Electronic Co., Ltd. | DCF | Max. 1000pF, Min. 250Vac, 40/125/21, Y1 type. | IEC/EN 60384-14 | VDE 40015758 |
| (Alternate) | Hsuan Tai Electronic Co. Ltd. | CY | Max. 1000pF, Min. AC 250V, 40/125/21, Y1 type. | IEC/EN 60384-14 | VDE 118413 |
| (Alternate) | WINDAY ELECTRONIC (DONG GUAN) CO., LTD | CD series | Max. 1000pF, Min. AC 250V, 25/125/21, Y1 type. | IEC/EN 60384-14 | VDE 40050259 |

TRF No. BIS_IT/PA_IS13252_V1.3

JA

DELHI TEST HOUSE
 Plot No.50, Phase - IV, Sector-57
 HSIDC, Industrial Area
 Behind Parnami Hospital, Kundli
 Sonapat-131028 (Haryana)
 Tele-fax : 0130-2116529



TM

DELHI TEST HOUSE®

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Pannam Hospital, Kundli, Sonapat-131028 (Haryana)
 Telefax : 0130-2116529
 e-mail : kundli@delhistesthouse.com, ag@delhistesthouse.com Website : www.delhistesthouse.com



ULR – TC53752010000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 96 of 113
 Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

| | | | | | |
|--|---|------------------------------|--|--|-----------------------|
| Mylar sheet Provided between primary to secondary circuit. | SUMITOMO BAKELITE CO LTD | AV-Lite DP 901 | V-0, min. thickness: 0.4mm, 130°C | UL 94, IEC 60695-11 | UL E41429 |
| (Alternate) | Sabic Innovative Plastics Us Lic | FR700(GG) | V-0, min. thickness: 0.4mm, 125°C | UL 94, IEC 60695-11 | UL E121562 |
| (Alternate) | DUPONT HONGJI FILMS FOSHAN CO LTD | EM, MO31 | VTM-2, min. thickness: 0.4mm, 105°C | UL 94, IEC 60695-11 | UL E59481 |
| (Alternate) | JIANGSU YUXING FILM TECHNOLOGY CO LTD | CY28 | VTM-2, min. thickness: 0.4mm, min. 105°C | UL 94, IEC 60695-11 | UL E59481 |
| Transformer (T1) | Dee Van Enterprise Co., Ltd. | 90E10PFL0-00H | Class B | IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / IEC 60950-1: 2005 + A1:2009 + A2 : 2013 | Tested with equipment |
| Bobbin for Transformer (T1) | SUMITOMO BAKELITE CO LTD | PM-9823 | V-0, 150°C | UL 94, IEC 60695-11 | UL E41429 |
| (Alternate) | SUMITOMO BAKELITE CO LTD | PM-9820 | V-0, 150°C | UL 94, IEC 60695-11 | UL E41429 |
| (Alternate) | HITACHI CHEMICAL CO LTD | CP-J-8800 | V-0, 150°C | UL 94, IEC 60695-11 | UL E42956 |
| (Alternate) | CHANG CHUN PLASTICS CO LTD | T375J, T373J, T200HF, T220NA | V-0, 150°C | UL 94, IEC 60695-11 | UL E59481 |
| Magnet wire for Transformer (T1) | WA TAI ELECTROTECHNICAL MATERIALS FACTORY LTD | UEW | 130°C | UL 1446 No equivalent IEC standard available | UL E243939 |
| (Alternate) | HUIZHOU GOLDEN OCEAN MAGNET WIRE FACTORY | xUEW | 130°C | UL 1446 No equivalent IEC standard available | UL E225143 |
| (Alternate) | SHENZHEN DAYANG INDUSTRY CO LTD | xUEW-NY@/130 | 130°C | UL 1446 No equivalent IEC standard available | UL E176101 |

TRF No. BIS_IT/PA_IS13252_V1.3

JH

DELHI TEST HOUSE
 Plot No.50, Phase - IV, Sector-57
 HSIDC, Industrial Area
 Behind Pannam Hospital, Kundli
 Sonapat-131028 (Haryana)
 Tele-fax : 0130-2116529



TM

DELHI TEST HOUSE®

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
 Telefax : 0130-2116529
 e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 97 of 113

Dated: 17/07/2020

IEC 60950-1: 2005 + A1:2009 + A2 : 2013

| | | | | | |
|--|--|--|-------|--|---------------|
| Triple insulated wire for Transformer (T1) | Furukawa Electric Co., Ltd. | TEX-E | 130°C | IEC/EN 62368-1 | VDE 006735 |
| (Alternate) | KBI COSMOLINK CO., LTD. | TIW-M | 130°C | IEC/EN 62368-1 | VDE 138053 |
| (Alternate) | Young Chang Silicone Co., Ltd. | STW-B | 130°C | IEC/EN 62368-1 | VDE 40013359 |
| (Alternate) | Great Leoflon Industrial Co., Ltd. | TRW(B) Serie(s) | 130°C | IEC/EN 62368-1 | VDE 136581 |
| (Alternate) | E&B Technology Co., Ltd. | E&B-XXXB* | 130°C | IEC/EN 62368-1 | VDE 40023473 |
| (Alternate) | Dah Jin Technology Co., Ltd. | TLW-B | 130°C | IEC/EN 62368-1 | VDE 40008834 |
| (Alternate) | Suzhou Yusheng Electronic Co., Ltd. | TIW-B, TWE-3 | 130°C | IEC/EN 62368-1 | VDE 400033527 |
| (Alternate) | Heyuan Koshen Insulator Co., Ltd. | TIW.*-*** | 130°C | IEC/EN 62368-1 | VDE 40039102 |
| (Alternate) | Huizhou Golden Ocean Wire Co., Ltd. | XYW (B) | 130°C | IEC/EN 60950-1 | VDE 40017563 |
| Insulation Tape for Transformer (T1) | 3M COMPANY ELECTRICAL MARKETS DIV (EMD) | 1350F-1 (b) | 130°C | UL 510 No equivalent IEC standard available | UL E17385 |
| (Alternate) | 3M COMPANY ELECTRICAL MARKETS DIV (EMD) | 1350F-2 (c) | 130°C | UL 510 No equivalent IEC standard available | UL E17385 |
| (Alternate) | SYMBIO INC | 35660 (a), 35661 (c), 35660Y (e) | 130°C | UL 510 No equivalent IEC standard available | UL E50292 |
| (Alternate) | JINGJIANG JINGYI ADHESIVE PRODUCT CO LTD | JY25-A (b) | 130°C | UL 510 No equivalent IEC standard available | UL E246950 |

Supplementary information: The conformity certificates of critical components mentioned above have been verified by lab and found satisfactory.

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
 Plot No.50, Phase - IV, Sector-57
 HSIDC, Industrial Area
 Behind Parnami Hospital, Kundli
 Sonapat-131028 (Haryana)
 Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
 Telefax : 0130-2116529
 e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 98 of 113
 Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

| 1.6.2 TABLE: Electrical data (in normal conditions) | | | | | | | P |
|---|-------|------------------------|-------|--------|-----------------------|---------------------|---|
| U (V) | I (A) | I _{rated} (A) | P (W) | Fuse # | I _{fuse} (A) | Condition/status | |
| 90 | 0.23 | - | 13.49 | RF1 | 0.23 | Maximum normal load | |
| 100 | 0.21 | 0.3 | 13.26 | RF1 | 0.21 | Maximum normal load | |
| 240 | 0.12 | 0.3 | 13.12 | RF1 | 0.12 | Maximum normal load | |
| 254.4 | 0.11 | - | 12.83 | RF1 | 0.11 | Maximum normal load | |

Supplementary information:

| 2.1.1.5 TABLE: Energy hazard measurement | | | | | P |
|--|---------------------|--------------------|--------------------|----------------|---|
| Voltage (rated) (V) | Current (rated) (A) | Voltage (max.) (V) | Current (max.) (A) | VA (max.) (VA) | |
| 5 | 2 | 4.85 | 2.22 | 10.76 | |

Supplementary information:

| 2.1.1.7 TABLE: Discharge test | | | | N/A |
|-------------------------------|-----------------------|---------------------|----------------------------|----------|
| Condition | τ calculated (s) | τ measured (s) | $t_{u \rightarrow 0V}$ (s) | Comments |
| - | - | - | - | - |

Supplementary information: No X-Capacitor used

| 2.2.2 TABLE: SELV measurement (under normal conditions) | | | | P |
|---|-----------------------------|--------------------|--------|------------------------------|
| Transformer | Location | Voltage (max.) (V) | | Voltage Limitation Component |
| | | V peak | V d.c. | |
| -- | Output of SWITCHING ADAPTER | -- | 5.14 | -- |

Supplementary information:

| 2.2.3 TABLE: SELV measurement (under fault conditions) | | | P |
|--|--------------------|---|---|
| Location | Voltage (max.) (V) | Comments | |
| Output short circuited of SWITCHING ADAPTER | 0 | SWITCHING ADAPTER immediately shutdown 'No safety hazard occurred' | |

Supplementary information:

TRF No. BIS_IT/PA_IS13252_V1.3

JH

DELHI TEST HOUSE
 Plot No.50, Phase - IV, Sector-57
 HSIDC, Industrial Area
 Behind Parnami Hospital, Kundli
 Sonapat-131028 (Haryana)
 Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
 Telefax : 0130-2116529
 e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 99 of 113

Dated: 17/07/2020

IEC 60950-1: 2005 + A1:2009 + A2 : 2013

| 2.4.2 | TABLE: Limited current circuit measurement | | | | | N/A |
|--|--|--------------|-------------|------------|----------|-----|
| Location | Voltage (V) | Current (mA) | Freq. (kHz) | Limit (mA) | Comments | |
| - | - | - | - | - | - | |
| Supplementary information: No limited current circuit used | | | | | | |

| | | | | |
|--|---|--|----------|---------|
| 2.5 | TABLE: Limited power source measurement | | | P |
| | Limits | | Measured | Verdict |
| According to Table 2B/2C (normal condition) at output of SWITCHING ADAPTER U _{oc} : 5.14V | | | | |
| current (in A) | ≤8.0 | | 2.22 | P |
| apparent power (in VA) | ≤100 | | 10.76 | P |
| According to Table 2B/2C (single fault condition) | | | | |
| current (in A) | - | | - | N/A |
| apparent power (in VA) | - | | - | N/A |
| Supplementary information: | | | | |

| 2.6.3.4 | TABLE: Resistance of earthing measurement | | N/A |
|---|---|----------|-----|
| Location | Resistance measured (mΩ) | Comments | |
| -- | -- | -- | |
| Supplementary information: - Class II equipment | | | |

<OR>

| 2.6.3.4 | TABLE: Resistance of earthing measurement | | N/A |
|------------------------------|---|----------|-----|
| Location | Voltage drop (V) | Comments | |
| -- | -- | -- | |
| Supplementary information: - | | | |

TRF No. BIS_IT/PA_IS13252_V1.3

#

DELHI TEST HOUSE
 Plot No.50, Phase - IV, Sector-57
 HSIDC, Industrial Area
 Behind Parnami Hospital, Kundli
 Sonapat-131028 (Haryana)
 Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
 Telefax : 0130-2116529
 e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 100 of 113
 Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

| 2.10.2 | | Table: Working voltage measurement | | | P |
|---------------------------------|-----------------|------------------------------------|---|--|---|
| Location | RMS voltage (V) | Peak voltage (V) | Comments | | |
| Transformer (T1) Pin 1 to Pin 6 | 208 | 356 | Max. V _{PEAK} & V _{RMS} voltage | | |
| Transformer (T1) Pin 2 to Pin 6 | 242 | 396 | | | |
| Transformer (T1) Pin 4 to Pin 6 | 218 | 362 | | | |
| Transformer (T1) Pin 5 to Pin 6 | 212 | 354 | | | |
| Transformer (T1) Pin 1 to Pin 7 | 210 | 352 | | | |
| Transformer (T1) Pin 2 to Pin 7 | 240 | 388 | | | |
| Transformer (T1) Pin 4 to Pin 7 | 216 | 368 | | | |
| Transformer (T1) Pin 5 to Pin 7 | 214 | 358 | | | |
| Supplementary information | | | | | |

| 2.10.3 and 2.10.4 | | TABLE: Clearance and creepage distance measurements | | | | | P |
|--|------------|---|------------------|---------|------------------|---------|---|
| Clearance (cl) and creepage distance (cr) at/of/between: | U peak (V) | U r.m.s. (V) | Required cl (mm) | cl (mm) | Required cr (mm) | cr (mm) | |
| Functional: | | | | | | | |
| Across Fuse (FR1) | 324 | 240 | 1.5 | 3.2 | 2.4 | 3.2 | |
| Basic / supplementary: | | | | | | | |
| -- | -- | -- | -- | -- | -- | -- | |
| Reinforced: | | | | | | | |
| Primary & secondary track of transformer (T1) | 396 | 242 | 4.0 | 8.0 | 4.9 | 10.4 | |
| Across Y-Capacitor (CY1) | 354 | 216 | 4.0 | 8.0 | 4.0 | 8.0 | |
| Supplementary information: | | | | | | | |

TRF No. BIS_IT/PA_IS13252_V1.3

JA

DELHI TEST HOUSE
 Plot No. 50, Phase - IV, Sector-57
 HSIDC, Industrial Area
 Behind Parnami Hospital, Kundli
 Sonapat - 131028 (Haryana)
 Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
 Telefax : 0130-2116529
 e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 101 of 113

Dated: 17/07/2020

IEC 60950-1: 2005 + A1:2009 + A2 : 2013

| 2.10.5 | TABLE: Distance through insulation measurements | | | | | P |
|--|---|--------------|------------------|-------------------|---|---|
| Distance through insulation (DTI) at/of: | U peak (V) | U r.m.s. (V) | Test voltage (V) | Required DTI (mm) | DTI (mm) | |
| Basic: | | | | | | |
| - | - | - | - | - | - | |
| Supplementary: | | | | | | |
| - | - | - | - | - | - | |
| Reinforced: | | | | | | |
| Bobbin of transformer (T1) | 396 | 242 | 3000 | 0.4 | 1.14 | |
| Insulating tape of transformer (T1) | 396 | 242 | 3000 | 2 layer | 3 layer (Compliance is verified by dielectric strength test) | |
| Supplementary information: | | | | | | |

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
 Plot No.50, Phase - IV, Sector-57
 HSIDC, Industrial Area
 Behind Parnami Hospital, Kundli
 131028 (Haryana)
 Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Pamami Hospital, Kundli, Sonapat-131028 (Haryana)
 Telefax : 0130-2116529
 e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 102 of 113
 Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

| | | | | | | | | | | | |
|---|------------------|----------------------------|---------------|-------------------------|------------------------|------------------------|---------------|---------------|-------------------|---------------|--|
| 4.3.8 | TABLE: Batteries | | | | | | | | N/A | | |
| The tests of 4.3.8 are applicable only when appropriate battery data is not available | | | | | | No such batteries used | | | | N/A | |
| Is it possible to install the battery in a reverse polarity position? | | | | | | As above | | | | N/A | |
| | | Non-rechargeable batteries | | | Rechargeable batteries | | | | | | |
| | | Discharging | | Un-intentional charging | Charging | | Discharging | | Reversed charging | | |
| | | Meas. Current | Manuf. Specs. | | Meas. Current | Manuf. Specs. | Meas. Current | Manuf. Specs. | Meas. Current | Manuf. Specs. | |
| Max. Current during normal condition | | --- | -- | -- | --- | -- | --- | -- | --- | -- | |
| Max. Current during fault condition | | --- | -- | -- | --- | -- | --- | -- | --- | -- | |
| Test results: | | | | | | | | | | Verdict | |
| - Chemical leaks | | | | | | No such batteries used | | | | N/A | |
| - Explosion of the battery | | | | | | As above | | | | N/A | |
| - Emission of flame or expulsion of molten metal | | | | | | As above | | | | N/A | |
| - Electric strength tests of equipment after completion of tests | | | | | | As above | | | | N/A | |
| Supplementary information: | | | | | | | | | | | |

TRF No. BIS_IT/PA_IS13252_V1.3

JH

DELHI TEST HOUSE
 Plot No.50, Phase - IV, Sector-57
 HSIDC, Industrial Area
 Behind Pamami Hospital, Kundli
 Sonapat-131028 (Haryana)
 Tele-fax : 0130-2116529



DELHI TEST HOUSETM

Plot No. 50, Phase - IV, Sector 57, HSIDC Industrial Area, Behind Pannami Hospital, Kundli, Sonapat-131028, Haryana.
 Telephone : 0130 2116529
 e-mail : kundli@delhitesthouse.com ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 103 of 113

Dated: 17/07/2020

IEC 60950-1: 2005 + A1:2009 + A2 : 2013

| 4.5 TABLE: Temperature rise measurements | | | | | P | |
|---|---|--------------------|---|-------------------------|-------------------------------|------------------|
| Temperatures were measured according cl. 1.4.5. Test in condition A and B at continuous normal operation as for power input measurements of table 1.6.2 resulted in highest temperature values. Temperatures are calculated according cl. 1.4.12.3 with regard to the maximum ambient operation temperature of 50°C (T _{ma}), as specified by the manufacturer. | | | | | | |
| Test voltage(s) (V): | | A: 90V, 50Hz | | B: 254.4V, 50Hz | | |
| t _{amb1} (°C): | | A: 24.8 | B: 25.2 | t _{amb2} (°C): | | |
| | | | | A: 24.8 | B: 25.2 | |
| Temperature of part/at: (measured with thermocouples) | Measured temperature rise at T _{amb} | | Calculated temperature at T _{ma} | | Allowed T _{max} (°C) | |
| | A dT (K) | B dT (K) | A T (°C) | B T (°C) | | |
| USB Connector | 28.9 | 28.2 | 78.9 | 78.2 | 95 | |
| Transformer (T1) | 34.8 | 32.3 | 84.8 | 82.3 | 110 | |
| Line choke (L1) | 32.6 | 31.8 | 82.6 | 81.8 | 130 | |
| PCB | 29.3 | 28.9 | 79.3 | 78.9 | 130 | |
| Enclosure (AC Plug Holder) | 09.6 | 08.5 | 59.6 | 58.5 | 95 | |
| External Enclosure | 18.2 | 16.3 | 68.2 | 66.3 | 95 | |
| Supplementary information: At max. normal load | | | | | | |
| Temperatures measured with winding resistance method: Not used | | | | | | |
| temperature T of winding: (winding resistance method) | (V) | R ₁ (Ω) | R ₂ (Ω) | T (°C) | allowed T _{max} (°C) | insulation class |
| - | - | - | - | - | - | - |
| Supplementary information: | | | | | | |

| 4.5.5 TABLE: Ball pressure test of thermoplastic parts | | | | N/A |
|--|-----------------------|--------------------------|--|-----|
| Allowed impression diameter (mm) | | 2 mm | | — |
| Part | Test temperature (°C) | Impression diameter (mm) | | |
| - | - | - | | |
| Supplementary information: Safety certified enclosure material used (See appended table 1.5.1) | | | | |

| 4.6.1, 4.6.2 Table: Enclosure opening measurements | | | N/A |
|---|-----------|----------|-----|
| Location | Size (mm) | Comments | |
| - | - | - | |
| Supplementary information: No openings in enclosure | | | |

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
 Plot No.50, Phase - IV, Sector-57
 HSIDC, Industrial Area
 Behind Pannami Hospital, Kundli
 Sonipat-131028 (Haryana)
 Tele-fax : 0130-2116529



DELHI TEST HOUSETM

Plot No. 50, Phase - IV, Sector 57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
 Telefax : 0130-2116529
 e-mail: kundli@delhitesthouse.com ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC53752010000861F

| | | |
|--------------------------------|--|-----------------|
| Report No.219784200626KUNIT001 | IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / | Page 104 of 113 |
| Dated: 17/07/2020 | IEC 60950-1: 2005 + A1:2009 + A2 : 2013 | |

| 4.7 | Table: Resistance to fire | | | | | N/A |
|--|---------------------------|------------------|----------------|--------------------|----------|-----|
| Part | Manufacturer of material | Type of material | Thickness (mm) | Flammability class | Evidence | |
| -- | -- | -- | -- | -- | -- | |
| Supplementary information: Safety certified PCB and enclosure material used (See appended table 1.5.1) | | | | | | |

| 5.1.6 | TABLE: Touch current and protective conductor current measurement | | | | | P |
|--|---|-------------|-------------------------|-------------|------------|---|
| | Test voltage (V) | AC 240V | | | | --- |
| Measurement location (Terminal A connected to...) | Polarity (normal) [mA] | | Polarity (reverse) [mA] | | Limit (mA) | Comments |
| | Switch: ON | Switch: OFF | Switch: ON | Switch: OFF | | |
| Earth terminal ("e" = open) | -- | -- | -- | -- | -- | No protective earthing used |
| Operating Panel ("e" = close) | 0.012 | 0.009 | 0.015 | 0.011 | 0.25 | L-N and accessible body wrapped with metal foil |
| Supplementary information: | | | | | | |

| 5.2 | TABLE: Electric strength tests, impulse tests and voltage surge tests | | | | P |
|---|---|--|------------------|--------------------|---|
| Test voltage applied between: | | Voltage shape (AC, DC, impulse, surge) | Test voltage (V) | Breakdown Yes / No | |
| Functional: | | | | | |
| -- | | -- | -- | -- | |
| Basic / supplementary: | | | | | |
| -- | | -- | -- | -- | |
| Reinforced: | | | | | |
| L-N terminal shorted together and secondary part of SWITCHING ADAPTER | | AC | 3000 | No | |
| L-N terminal shorted together and accessible body wrapped with metal foil | | AC | 3000 | No | |
| 3 layer of Insulating tape of transformer (T1) | | AC | 3000 | No | |
| Supplementary information: | | | | | |

TRF No. BIS_IT/PA_IS13252_V1.3

JH

DELHI TEST HOUSE
 Plot No.50, Phase - IV, Sector-57
 HSIDC, Industrial Area
 Behind Parnami Hospital, Kundli
 Sonapat-131028 (Haryana)
 Tele-fax : 0130-2116529



DELHI TEST HOUSE

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028, Haryana
 Telefax : 0130-2116529
 e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 105 of 113
 Dated: 17/07/2020 IEC 60950-1: 2005 + A1:2009 + A2 : 2013

| 5.3 | TABLE: Fault condition tests | | | | | P |
|----------------------------|---|--------------------|-----------|--------|----------------------------|--|
| | Ambient temperature (°C) | | | | See below | — |
| | Power source for EUT: Manufacturer, model/type, output rating | | | | (See appended table 1.5.1) | — |
| Component No. | Fault | Supply voltage (V) | Test time | Fuse # | Fuse current (A) | Observation |
| Transformer (T1) | Overload | 240 | 30min | RF1 | -- | Ambient temp. 25.5°C Max. Temp. at Transformer: 89.8°C Max.Temp. on enclosure: 78.6°C No safety hazard occurred |
| +5V and GND | Short circuit | 240 | 1min | RF1 | -- | Ambient temp. 24.9°C Unit shut down immediately No safety hazard occurred |
| Capacitor (C8) | Short circuit | 240 | 1min | RF1 | -- | Ambient temp. 25.3°C Unit shut down immediately No safety hazard occurred |
| Supplementary information: | | | | | | |

TRF No. BIS_IT/PA_IS13252_V1.3

JH

DELHI TEST HOUSE
 Plot No.50, Phase - IV, Sector-57
 HSIDC, Industrial Area
 Behind Parnami Hospital, Kundli
 Sonipat-131028 (Haryana)
 Tele-fax : 0130-2116529



TM

DELHI TEST HOUSE

Plot No. 50, Phase - IV, Sector 57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529

e-mail : kundli@delhitesthouse.com ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 106 of 113

Dated: 17/07/2020

IEC 60950-1: 2005 + A1:2009 + A2 : 2013

| C.2 | | TABLE: Insulation of transformers | | | | | | P |
|--|------------|-----------------------------------|---|---------|------------------|---------|--|---|
| Transformer part name | | T1 | | | | | | — |
| Manufacturer | | (See appended table 1.5.1) | | | | | | — |
| Type | | SMPS type | | | | | | — |
| Clearance (cl) and creepage distance (cr) at/of/between: | U peak (V) | U r.m.s. (V) | Required cl (mm) | cl (mm) | Required cr (mm) | cr (mm) | | |
| Primary /input winding and secondary/output winding (internal) | 396 | 242 | Triple Insulated wire used | | | | | |
| Primary/input winding and core (internal) | | | Triple Insulated wire used | | | | | |
| Secondary/output winding and core (internal) | | | Triple Insulated wire used | | | | | |
| Primary/input part and secondary/output part (external) | | | 4.0 | 8.2 | 4.9 | 8.2 | | |
| Primary/input part and core (external) | | | 2.0 | 4.2 | 2.5 | 4.2 | | |
| Primary/input part and secondary/output winding (external) | | | 4.0 | 7.6 | 4.9 | 7.6 | | |
| Secondary/output part and core (external) | | | 2.0 | 4.0 | 2.5 | 4.0 | | |
| Secondary/output part and primary/input winding (external) | | | 4.0 | 7.6 | 4.9 | 7.6 | | |
| Description of design: | | | | | | | | |
| (a) Bobbin | | | | | | | | |
| Primary/input pins | | | 2-1, 4-5 (active pin) | | | | | |
| Secondary/output pins | | | 6-7 (active pin) | | | | | |
| Material (manufacturer, type, ratings) | | | SUMITOMO BAKELITE CO LTD, PM-9823, V-0, 150°C | | | | | |
| Thickness (mm) | | | 1.14 | | | | | |
| (b) General | | | | | | | | |

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Parnami Hospital, Kundli
(Haryana)



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)
 Telefax : 0130-2116529
 e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 107 of 113

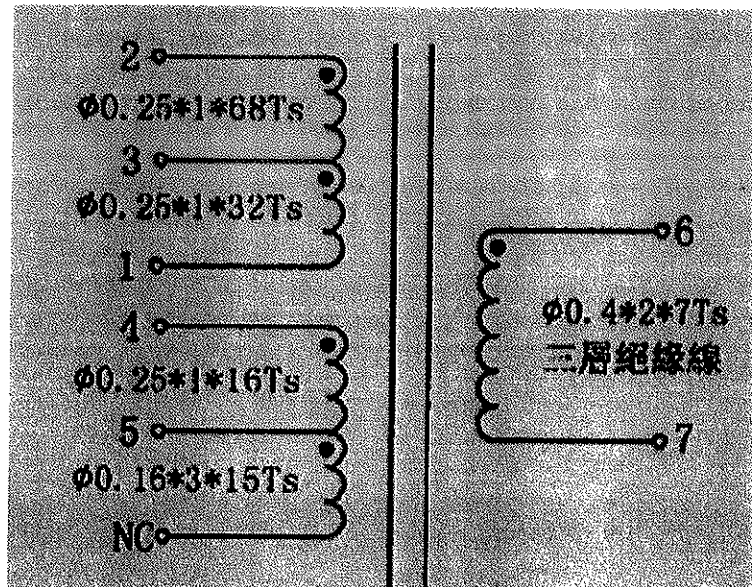
Dated: 17/07/2020

IEC 60950-1: 2005 + A1:2009 + A2 : 2013

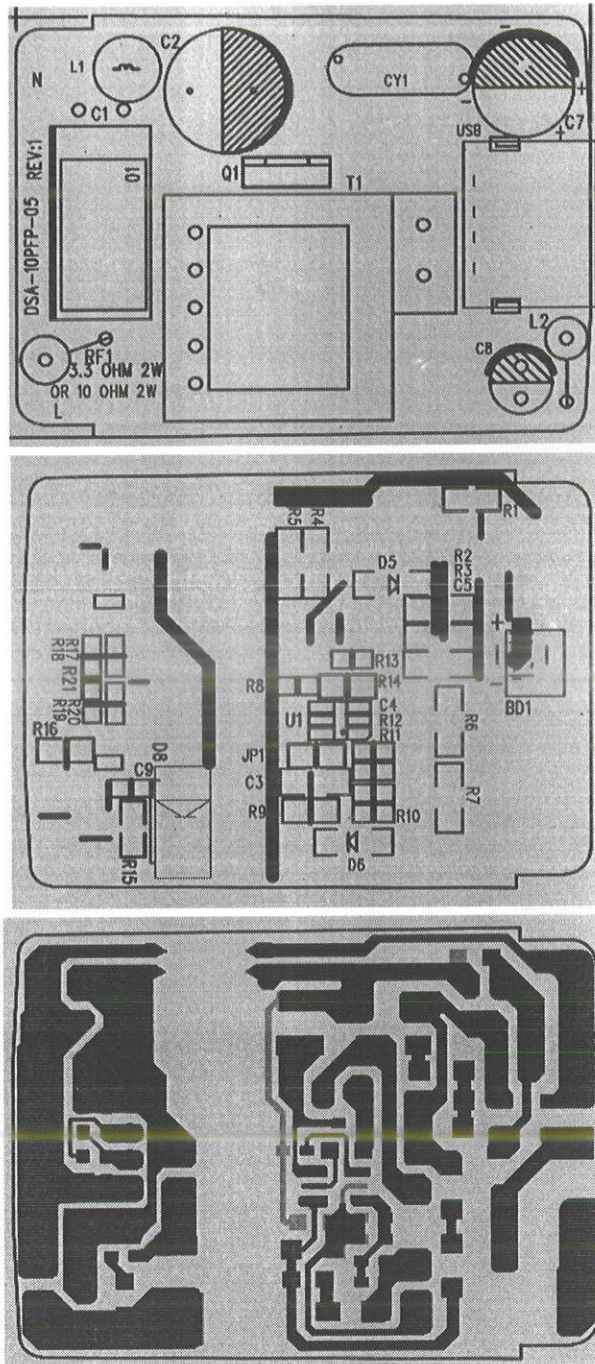
Winding sequence & pin diagram Transformer (T1)

| | | |
|-------------|-------------------|-------------------|
| PIN3 → PIN1 | ∅0.25*1*32Ts | MYLAR TAPE 2Ts |
| PIN5 → NC | ∅0.16*3*15Ts | MYLAR TAPE 2Ts |
| PIN6 → PIN7 | ∅0.4*2*7Ts 三层绝缘线 | MYLAR TAPE 3Ts |
| PIN4 → PIN5 | ∅0.25*1*16Ts 均匀绕线 | MYLAR TAPE 3Ts |
| PIN2 → PIN3 | ∅0.25*1*34Ts | MYLAR TAPE 2Ts |
| | ∅0.25*1*34Ts | MYLAR TAPE W:10mm |

BOBBIN: EPC-17

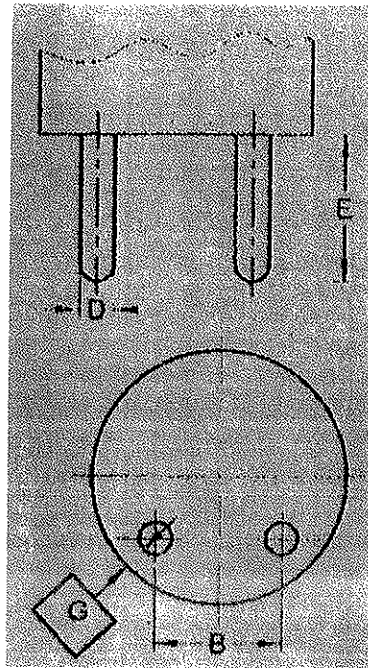


Attachment I
PCB layout



Attachment II

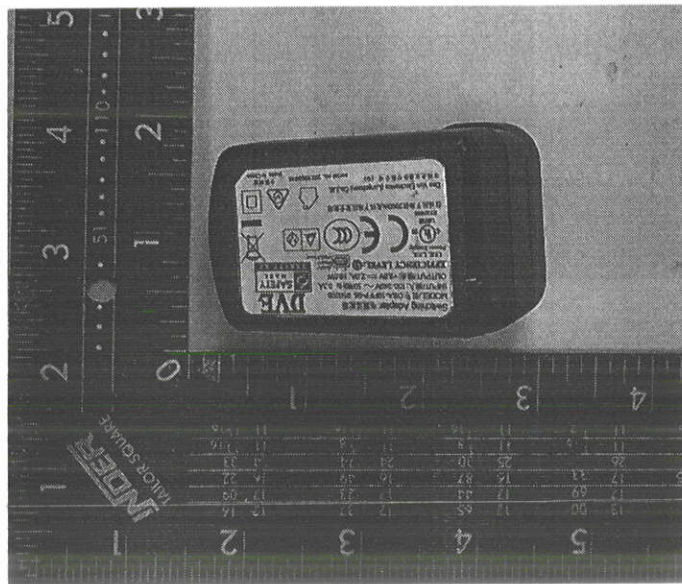
Plug Dimension as per IS 1293:2019



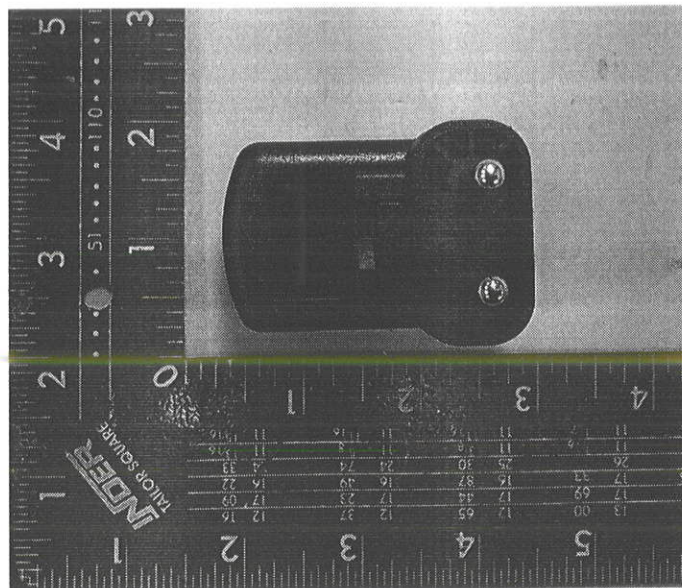
| | 2.5A mm | Observed mm |
|--------|----------------------|----------------|
| A | --- | --- |
| B | 19.10±0.15 | 19.08 |
| C | --- | --- |
| D | 5.08+0.025 -0.050 | 5.07 |
| E | 15.9+1.04 -0.13 | 16.12 |
| F | --- | --- |
| G min. | 7.94 min. | 8.37 |
| H | 5.16-7.54 | --- |
| L | 7.5 | --- |
| M | 4.58 max. | --- |

Attachment III
Photo Document

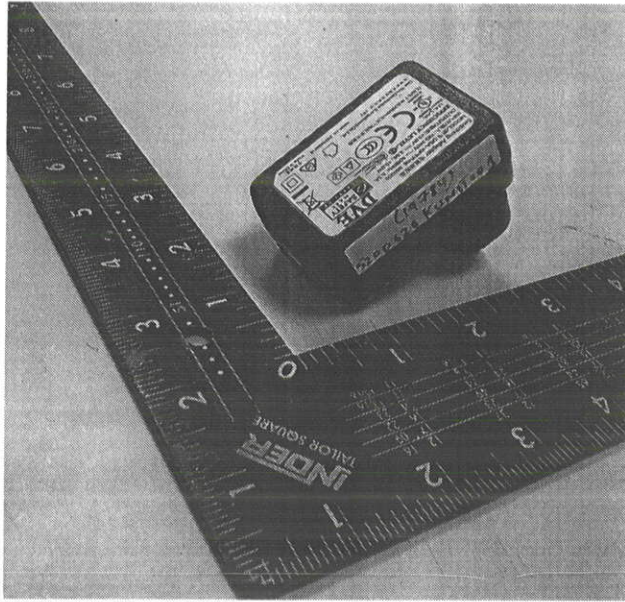
Top view of SWITCHING ADAPTER



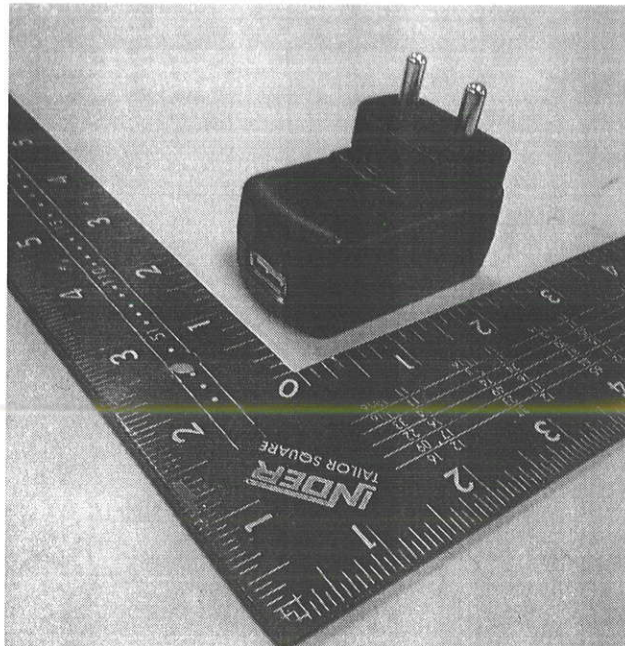
Bottom view of SWITCHING ADAPTER



Side View of SWITCHING ADAPTER (1)



Side View of SWITCHING ADAPTER (2)





DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Pannami Hospital, Kundli, Sonapat-131028 (Haryana)
Telefax : 0130-2116529
e-mail : kundli@delhistesthouse.com, ag@delhistesthouse.com Website : www.delhistesthouse.com



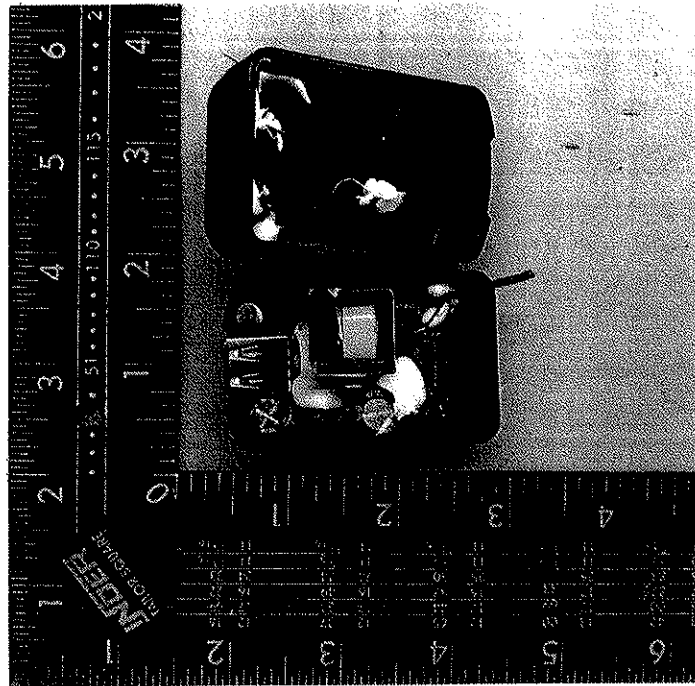
ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 112 of 113

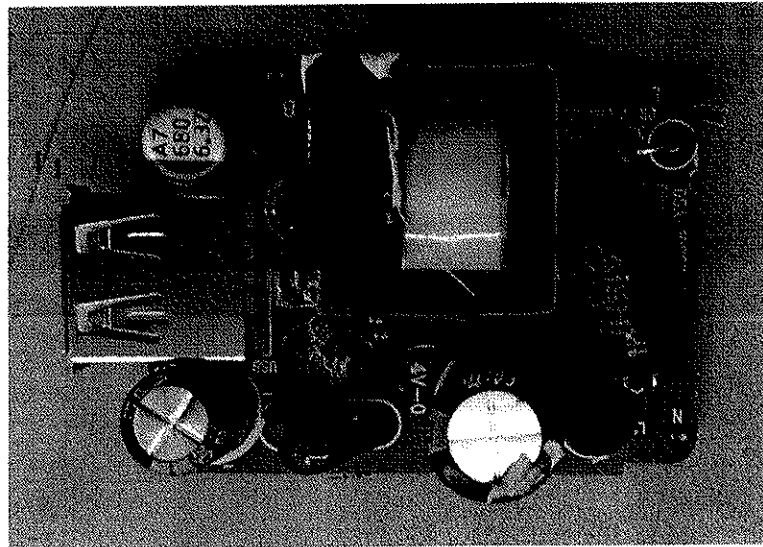
Dated: 17/07/2020

IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Internal View of SWITCHING ADAPTER



Component Side PCB View of SWITCHING ADAPTER



TRF No. BIS_IT/PA_IS13252_V1.3

JA

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Pannami Hospital, Kundli
Sonapat-131028 (Haryana)
Tele-fax : 0130-2116529



DELHI TEST HOUSE[®]

Plot No. 50, Phase - IV, Sector-57, HSIDC Industrial Area, Behind Pamam Hospital, Kundli, Sonapat-131028 (Haryana)

Telefax : 0130-2116529

e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



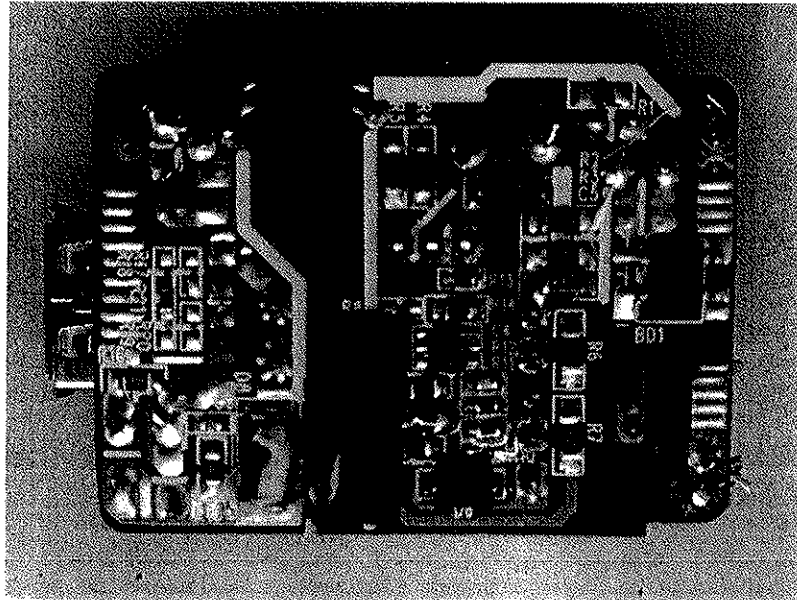
ULR – TC537520100000861F

Report No.219784200626KUNIT001 IS 13252 (Part 1): 2010 + A1: 2013 + A2 : 2015 / Page 113 of 113

Dated: 17/07/2020

IEC 60950-1: 2005 + A1:2009 + A2 : 2013

Soldered Side PCB View of SWITCHING ADAPTER



- The results listed refer only to tested samples and applicable parameters, Endorsement to product is neither inferred nor implied.
- Total liability of our Test House is limited to the invoiced amount.
- Samples will be destroyed after 90 days from the date of test certificate unless otherwise specified.
- This report is not to be reproduced wholly or in part and cannot be used as an evidence in the court of Law and should not be used in any advertising media without our special permission in writing.
- Report refer to the sample submitted to us and not drawn by **DELHI TEST HOUSE**, unless mentioned otherwise.

TRF No. BIS_IT/PA_IS13252_V1.3

DELHI TEST HOUSE
Plot No.50, Phase - IV, Sector-57
HSIDC, Industrial Area
Behind Pamam Hospital, Kundli
Sonapat-131028 (Haryana)
Tele-fax : 0130-2116529

